

rec'd 8/18

SFUND RECORDS CTR
2074845

ABANDONED URANIUM MINES ON THE NAVAJO NATION

**Preliminary Scoring Tables for AUM Sites
On or Within One Mile of the Navajo Nation**

Prepared for:

**U.S. Environmental Protection Agency, Region 9
75 Hawthorne Street (SFD 8-2)
San Francisco, CA 94105
(415) 972-3167**

**Under U.S. Environmental Protection Agency
and the U.S. Army Corps of Engineers
Interagency Agreement DW9695553-01-0**

**Under U.S. Army Corps of Engineers
Contract No. DACW09-02-D-0020 Task 0004**

August 2005

BACKGROUND

The U.S. Environmental Protection Agency (USEPA) has undertaken an extensive scientific study to determine if abandoned uranium mines (AUM) and related mine features pose a significant risk to human health and the environment, and to identify areas requiring action to reduce risk for the Navajo Nation. There are more than 500 AUMs located throughout and within one mile of the Navajo Nation. Associated with these AUMs are over 1,200 mine features (e.g. portal, prospect, rim strip/pit, vertical shaft or waste pile). While many of these AUMs have undergone surface reclamation by the Navajo Abandoned Mine Lands Reclamation Program (NAMLRP), potential long-term exposure risks can persist even after the surface reclamation of an AUM is completed.

The USEPA and U.S. Army Corps of Engineers (USACE) conducted a pilot screening assessment project for the Red Valley Chapter area on the Navajo Nation. The goals of the pilot project were to focus attention first on the areas with the highest apparent level of risk, and to identify areas to be recommended for additional characterization by the appropriate lead federal agency. The approach involved the use of readily available data; the development of a CERCLA Hazard Ranking System (HRS) derived screening model; and the analytical capabilities of a Geographic Information System (GIS). The pilot Red Valley Chapter Screening Assessment project served as the prototype to generate a scored list of AUMs over the entire Navajo Nation, which covers approximately 17.5 million acres in the states of Arizona, New Mexico, and Utah.

METHODOLOGY

The methodology used to develop the scores for known AUMs on and within one mile of the Navajo Nation proceeded with the following general steps:

- Develop a CERCLA HRS-derived model to assess and compare AUM priorities on the Navajo Nation
- Acquire required data and automate into a GIS database
- Apply the HRS screening criteria using GIS analysis tools
- Generate scoring list for each pathway and a composite scoring table

HRS-DERIVED MODEL

The EPA Superfund Site Assessment and Technical Support Team developed a custom set of HRS screening criteria to assess and score AUMs. The purpose of this analytical model is to prioritize Navajo AUM sites using readily available data. The level of detail in this study is not as robust as required for remedy decision making, a full HRS analysis, but rather to identify and prioritize areas for future investigation and response decisions. The EPA team considered probable Navajo exposure pathways as the basis for the model. The large area involved in the assessment falls beyond the normal scope for the HRS, so a custom model was developed to best fit these unique circumstances.

Given the experimental nature of the task, the EPA team considered the probable Navajo exposure pathways and used 40 CFR 300, Federal Register Notice, HRS Final Rule, December 1990 (EPA, 1990) as the basis for the HRS-derived model. Given the EPA's experience collecting available and pertinent Navajo Nation environmental data and the large land area under consideration, the EPA decided to conservatively address all known release points (i.e., uranium mines, features, and waste piles), all known streams, all known water wells (domestic, agricultural, and municipal), and all structures (surrogate for residences or where people gather).

Consideration was given to the general fate and transport of radionuclides, as well as probable Navajo Nation exposure assessment scenarios. For example, the scenario of a rural homestead adjacent to an unfenced AUM site where the residents spend considerable waking hours outdoors with access to a nearby surface water source was considered. As a conservative assumption, it was presumed that all water sources may be used for human consumption and that uranium is mobile in dissolved media. For the two water pathways, a simple numeric progression was chosen. A high bias in weighting the soil pathway was used, due to the rural, agrarian lifestyle of the residents. Similarly, a low bias for the air pathway was used, due to the strong winds associated with dispersion effects and resultant difficulty attributing sources.

The method used to prioritize the AUM sites is based on a limited subset of the locational-distance criteria in the HRS. It does not include many of the other criteria and factors built into the HRS model. Therefore, the scores derived under this model cannot be considered to be reflective of an HRS score, but are meant only to begin the process of prioritization based on distance from the AUM source. The algorithm was derived from the CERCLA HRS using the most appropriate distance specific site screening criteria. The HRS-derived model developed for the AUM Project for each of the pathways is listed below.

Air Pathway – 200 feet, 1,320 feet (1/4 mile), and one mile.

- For structures within 200 feet of an AUM site, assign 100 points per structure,
- For structures between 200 feet and 1,320 feet, assign 25 points per structure,
- For structures between 1,320 feet and one mile, assign ten points per structure, and
- If no structures exist within one mile, assign zero points.

Soil Exposure - 200 feet, 1,320 feet, and one mile.

- For structures within 200 feet of an AUM site, assign 100 points per structure,
- For structures between 200 feet and 1,320 feet, assign 25 points per structure,
- For structures between 1,320 feet and one mile, assign ten points per structure, and
- If no structures exist within one mile, assign zero points.

Groundwater Pathway - 1,320 feet, one mile, and four miles.

- For wells within 1,320 feet of an AUM site, assign 100 points per well,
- For wells between 1,320 feet and one mile, assign 50 points per well,
- For wells between one mile and four miles, assign ten points per well, and
- If no well exists within four miles, assign zero points.

Surface Water Pathway – one mile, four miles, and 15 miles.

- For perennial or intermittent surface water within one mile of an AUM site, assign 100 points,
- For perennial or intermittent surface water between one mile and four miles, assign 50 points,
- For perennial or intermittent surface water between four miles and 15 miles, assign ten points,
- If no perennial or intermittent surface water exists within 15 miles, assign zero points.

DATA

The following data were required to perform the HRS-derived scoring algorithm for the AUM Project:

ABANDONED URANIUM MINE SITES - Locations for the potential radioactive material sources (mines) on the Navajo Nation, and within one mile of the Navajo Nation, were obtained from a variety of sources:

Navajo Abandoned Mine Lands Reclamation Program (NAMLRP): The NAMLRP GIS database was used as a primary data source for AUMs within the Navajo Nation Tribal Trust lands. For this study, only uranium mine polygons were selected. Unreclaimed uranium mine point features (e.g. portals, prospects, rim strips/pits, vertical shafts, and waste piles) were selected and buffered at 200 feet to generate mine polygons.

Melvin Yazzie identified which NAMLRP AUM mine feature points had associated unreclaimed waste piles. TerraSpectra extended the project polygons with unreclaimed debris piles 200 feet down slope in the vicinity of the identified mine features.

Chenoweth (1990): Chinle AUM locations were estimated using U.S. Geological Survey (USGS) 7.5' topographic maps, and Chenoweth's (1990) text and sketch maps. A borrow pit polygon was created using the USGS topo map and polygons from descriptions in the Chenoweth report of sizes of disturbance areas. The orientation of polygons was determined using USGS topo maps and USGS Digital Orthophoto Quarter Quadrangles (DOQQs).

McLemore et al., (2002): New Mexico AUM polygons were generated using McLemore's 2002 database of uranium mines, prospects, occurrences, and mills in New Mexico. A GIS shapefile was generated from latitude and longitudes provided in the McLemore database. These point locations were used to locate the mine and occurrence features on USGS topo maps and DOQQs. The following criteria were used to select uranium mine and occurrence features from the McLemore dataset for use in this analysis:

- AUMs in the Grant Uranium District were added to the AUM GIS dataset that had: 1) documented uranium production and/or 2) surface disturbances on the USGS topo maps or DOQQs that were likely related to surface uranium exploration activities.
- AUM features within the Navajo Nation Trust Lands that had been inventoried and included in the NAMLRP AUM database were not redundantly added.
- AUM features in the satellite areas of the Navajo Nation were not included.
- AUM features outside a one mile buffer of the Navajo Nation were not included.

The point locations (latitude and longitude coordinates) provided in the McLemore database were used as a basis for locating AUMs in New Mexico. Polygon boundaries for New Mexico AUMs were developed by photo interpreting AUM-related disturbances on DOQQs, reviewing USGS topo maps, and checking mine dimensions (when provided) in the McLemore database.

Sprinkel, (1999): One mine (Pete 6 & 7) was added to the AUM GIS dataset from the Utah Geological Survey data. Pete 6 & 7 is located in the northeast portion of Aneth Chapter. The AUM straddles the Navajo Nation boundary and is well within the one mile area of influence.

Chenoweth (personal communication): Bill Chenoweth was contacted by telephone on 2/28/05. Mr. Chenoweth followed up on March 1, 2005 with additional information about an AUM in the

northernmost tip of Teec Nos Pos Chapter in Utah. The AUM was added to the AUM GIS dataset as Navajo Tribal Mining Permit No. 206, with a production of 21.6 tons of ore and ~30 lbs of U308 and 39 lbs of V2O5.

Hendricks, 2001: Aerial radiation surveys were flown over 41 AUM areas on the Navajo Nation during the period from October 1994 to October 1999. The aerial surveys characterized both the overall radioactivity levels (gross counts) and excess bismuth²¹⁴ activity (indicator of uranium ore deposits and/or uranium mines) within the surveyed areas. Special processing identified mines, waste piles, transfer stations, high natural uranium deposits, and other activities potentially related to uranium mining by identifying locations where uranium radioactivity was out of balance with radioactivity from other naturally occurring isotopes (potassium and thorium). For the Navajo Nation, excess bismuth²¹⁴ activity (background) was zero with a measured standard deviation of +/- 20 counts per second (cps). To eliminate false indications of excess bismuth²¹⁴ caused by background statistical variations, minimum reportable activity (MRA) was set to 80 cps (approximately 3.5 uR/h).

The excess bismuth²¹⁴ radiation contour data were compared with the AUMs in the AUM GIS dataset. A threshold of 170 cps (approximately 7.4 uR/h) was used as minimum excess bismuth²¹⁴ value for the comparison. In some cases, the boundaries of the AUM polygons were expanded to encompass the extent of the excess bismuth²¹⁴ radiation contours. The excess bismuth²¹⁴ radiation data was also used to identify some mines that had not been included in the NAMLRP AUM reclamation program. If an area had elevated excess bismuth²¹⁴ radiation levels and could be identified with an AUM (e.g. USGS topo map or other map source) an AUM was added to the GIS dataset. AUM polygons that have been extended based on the excess bismuth²¹⁴ radiation contour data are identified in the AUM GIS dataset.

DRAINAGES - Five U.S. Geological Survey (USGS) National Hydrography Datasets (NHD), medium resolution basin geodatabases were acquired from the USGS to cover the entire Navajo Nation. From these geodatabases, all streams (perennial and intermittent) within at least 15 miles of AUMs were extracted. USGS topo maps and USGS DOQQs were acquired and inspected to determine the slope each AUM resides upon. These slopes are where overland flow of water would flow during and after precipitation events.

Any stream that intersected this overland flow within one mile was selected along with all its downstream segments for at least 15 miles. If no streams existed within the NHD stream database, then the USGS topo maps were inspected for mapped streams. This was done because the USGS NHD medium resolution data is intended for use at a scale of 1:100,000 scale. For this study, the 1:24,000 scale USGS topo maps provide a more appropriate high resolution source of stream data. In the absence of an NHD stream, a stream segment from a 1:24,000 scale USGS topo map was digitized where it fell within one mile along the overland flow slope from an AUM. In a few cases, the NHD stream data provided incomplete stream segments. USGS topo maps were used first to provide the missing stream segments. Secondarily, USGS DOQQs were used to photo interpret the missing stream segments.

WELLS - The Navajo Department of Water Resources (NDWR) "wells" GIS database was processed and clipped to the four mile buffer around AUMs. During visits to the Navajo Nation it has been observed that the locations of water tanks and wells in the NDWR GIS dataset were not always accurately mapped. In some cases, water tanks and wells were missing from the NDWR GIS dataset. Additional well databases available for the Navajo Nation were acquired and processed into GIS shapefiles:

- Arizona Department of Water Resources
- New Mexico Office of the State Engineer
- Utah Department of Water Resources

- National Hydrographic Database
- Geographic Names Information System (GNIS)
- USACE Water Sample Locations
- USGS topo maps
- USGS DOQQs

Well locations (within the four mile buffer of AUMs) from each of the above sources were evaluated against the NDWR GIS dataset. Using DOQQs as the image map base, wells were accurately positioned, and missing wells were added to the Wells GIS dataset.

STRUCTURES - Structures have been used in this analysis as a surrogate indicator of residences and where people gather. Structures within one mile of an AUM were photo interpreted using DOQQs and USGS topo maps. Some issues associated with the DOQQs and DRGs are listed below that impacted interpretation of structures:

Date of Imagery: The DRGs and DOQQs available for mapping structures on the Navajo Nation are anywhere from eight to over 20 years old. This means that structures built after the date of the DOQQ will not be present and cannot be mapped from the DOQQ.

Quality of Imagery: A second issue was related to the quality of the DOQQs, which range from excellent quality to minimally sufficient. The DOQQ quality problems include imagery that is saturated (high and low ends), has deep shadows, or snow cover. DOQQ problems also include areas of high-relief that are smeared, and poorly controlled corrections that cause offset from adjacent quadrangles.

Interpretability: Many residences on the Navajo Nation are very small structures (< three-four meters) and are constructed from materials that are similar or the same as the surrounding background (e.g. earthen hogans). These small, circular structures are difficult to discriminate on the DOQQs and can be confused with large boulders and some vegetation. Small structures that are located under vegetative cover (piñon juniper or pine forest) can not be discriminated on the DOQQs.

The Navajo Tribal Utility Authority (NTUA) provided locations for electric, gas, and water utility meters within five miles of mapped AUM sites. For the purpose of interpreting structures, it was assumed that any meter in the NTUA dataset would be associated with a structure of some type. The NTUA meter data was used to assist with the interpretation of structures. When there was an NTUA meter location with no associated structure on either the DOQQ or USGS topo map, an "assumed structure" was added to the Structures GIS dataset. Utility meter data was only provided for areas where NTUA provides utility services, which does not cover the entire Navajo Nation.

GIS PROCESSING OF HRS-DERIVED MODEL

The source and target data listed above were automated into a GIS database. Tabulations to score the pathways were then performed using GIS analysis functions over the entire Navajo Nation. A series of buffers were created around each of the AUM polygons at all analytical intervals: 200 feet, 1,320 feet (1/4 mile), one mile, four miles, and 15 miles. These buffers were used to perform the groundwater, surface water, soil, and air pathways analyses. Summary tables for the Air, Soil, and Groundwater pathways were generated that list the total number of target features (structures or wells) within each buffer range. The numbers of target features within each buffer range were then multiplied by the appropriate HRS factor for each AUM on the Navajo Nation, and a pathway score was tabulated.

The surface water pathway was developed using a different methodology because the targets are linear intermittent or perennial drainage features. A count of streams is not an appropriate method because it would result in counting multiple reaches for the same stream. Instead, the presence of a perennial or intermittent drainage within a buffer range was used to establish the scoring. A summary table was generated for every AUM site intersecting within one mile overland any drainage within one mile, four miles, and 15 miles.

Combined Pathway Scores (see Tables 4 and 5) were generated by summing the total scores of each pathway for each AUM site on the Navajo Nation.

RESULTS

This section presents the results of the HRS-derived screening model for AUM sites located on the Navajo Nation. As previously stated, these scores are not intended to indicate actual risk, but will be used to assist with establishing priorities for future investigations.

AIR PATHWAY AND SOIL PATHWAY

The air pathway involves wind that can entrain particulates from mine spoil piles, roads, and other disturbed areas. Waste rock at AUM sites contain radionuclides and metals that may be released as fugitive dust. This material can contaminate areas downwind as particles settle out of suspension in the air (EPA, 2000). Evaluation of the air pathway using the modified HRS model also required the location of AUM sites and distance to structures.

The soil exposure pathway involves direct exposure to hazardous substances and areas of suspected contamination. This pathway differs from the three migration pathways in that it accounts for contact with in-place hazardous substances at the site rather than migration of substances from the site. Evaluation of the soil pathway using the modified HRS model required the location of the AUM sites and distance to structures. The HRS criteria used to evaluate the soil pathway are described under the HRS-derived model.

The buffer distances around the AUM sites and the factors associated with each distance are the same for both the soil and air pathways under the modified HRS model used for this assessment. The HRS criteria used to evaluate the air pathway are described under the HRS-derived model, and are the same as for the soil pathway. Scores for the soil and air pathway assessment are shown in Table 1 "Air and Soil Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation."

SURFACE WATER PATHWAY

Water erosion is the process by which soil particles are detached and transported from their original location. Sedimentation is the by-product of erosion, whereby eroded particles are deposited at a different location from their origin. Erosion is a concern for AUMs because of the exposed mine wastes. Major sources of erosion and sediment loadings at mining sites include waste rock and overburden piles, haul and access roads, exploration areas, and reclamation areas. Hazardous constituents (e.g. radionuclides and metals) associated with discharges from mining operations may be found at elevated levels in sediments (EPA, 2000).

Evaluation of the surface water pathway using the modified HRS-model required the location of the AUM sites and distance to perennial and intermittent streams or drainages. The HRS criteria used to evaluate the surface water pathway are described under the HRS-derived model. Scores for the surface water pathway assessment are shown in Table 2 “Surface Water Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation.”

GROUNDWATER PATHWAY

Mining operations can affect groundwater quality in several ways. The most obvious occurs in mining below the water table, such as underground workings, which can provide a direct conduit to aquifers. Groundwater quality is also affected when waters infiltrate through surface materials (e.g. mine debris piles) into groundwater. Contamination can also occur when there is an hydraulic connection between surface and groundwater. Any of these situations can cause elevated contaminant levels in groundwater. In addition, contaminated groundwater may discharge to surface water down-gradient of the AUM site, as contributions to base flow in a stream channel or springs (EPA, 2000).

Evaluation of the groundwater pathway using the HRS-derived criteria required the location of the AUM sites and distance to wells as described under the HRS-derived model. Scores for the groundwater pathway assessment are shown in Table 3 “Groundwater Pathways Score Table for AUMs on and Within One of the Navajo Nation.”

COMBINED PATHWAYS

Once total scores were developed for each of the four pathways it was possible to tabulate a combined pathways score for each of the AUM sites. Scores for air, soil, surface water, and groundwater were summed to obtain a combined score. Two versions were prepared of the “Combined Pathways Score” tables:

- Table 4. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation – by Combined Score.
- Table 5. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation – by Chapter.

Fields in the Combined Pathways Tables are as follows:

Mine ID	Each of the AUM sites was assigned an arbitrary, unique identifier (Mine ID).
UTM Easting	Centroid point for the AUM polygons in Universal Transverse Mercator (UTM), Zone 12, NAD 83 projection (x-coordinate)
UTM Northing	Centroid point for the AUM polygons in Universal Transverse Mercator (UTM), Zone 12, NAD 83 projection (y-coordinate)
Source_ID	<p>Due to the variety of sources used for the AUM GIS dataset, there is currently no single, consistent identifier for AUMs. AUM identifiers from the 3 primary sources include:</p> <ol style="list-style-type: none"> 1) NAMLRP reclamation project names (NA-xxx); 2) NAMLRP unreclaimed Site IDs (e.g. COV023). The naming convention used for Site ID was the first three characters of the NAMLRP Problem Area name and a three digit sequential number; and 3) McLemore uranium occurrences (NMMKxxxx). <p>There are a few designations from other sources that were used (e.g.</p>

	Chenoweth)
Mine_Name	Mine names have been included in the Combined Pathways Tables as available. To date, mine names have only been researched or verified for AUMs in the Red Valley Chapter. As the Screening Assessment Reports are developed for the 6 mining regions, it may be possible to associate mine names with the AUM polygons. In the current AUM GIS dataset, it is probable that more than one mine is contained within some AUM polygons. This is especially likely in the Grants Uranium Mining area.
Chapter 1	Navajo Nation Chapter in which the AUM is located. If there is more than one Chapter listed, Chapter 1 is the predominant Chapter by area.
Chapter 2	Navajo Nation Chapter in which an AUM is located that spans two Chapter boundaries. Chapter 2 is the secondary Chapter by area.
Total Air Score	Total score for the Air Pathway based on the number of structures that fall within the 200 feet, $\frac{1}{4}$ mile, and one mile buffers from the AUM sites, multiplied by the HRS-derived scoring factors of 100, 25, and ten respectively.
Total Soil Score	Total score for the Soil Pathway based on the number of structures that fall within the 200 feet, $\frac{1}{4}$ mile, and one mile buffers from the AUM sites, multiplied by the HRS-derived scoring factors of 100, 25, and ten respectively.
Total Surface Water Score	Total score for the Surface Water Pathway based on the presence of a stream or drainage within one mile, four miles, and 15 miles of an AUM site multiplied by the HRS-derived scoring factors of 100, 50, and ten respectively.
Total Groundwater Score	Total score for the Groundwater Pathway based on the number of wells that fall within the $\frac{1}{4}$ mile, one mile, and four mile buffers from the AUM sites, multiplied by the HRS-derived scoring factors of 100, 50, and ten respectively.
Combined Score	Summation of the total scores for each pathway

DISCUSSION

Using the HRS-derived model, combined scores for AUM sites on and within one mile of the Navajo Nation range from ten to 5,190. A brief description of the ten highest scored AUM sites follows.

The AUM site identified by Mine ID #276 (NAMLRP Project Number NA-0420) has the highest combined pathway score (5,190) on the Navajo Nation. This site is located in the Beclabito Chapter less than $\frac{1}{4}$ mile north of the Beclabito Chapter House. This AUM site scores high due to the presence of 175 structures within one mile of the AUM site (68 of these structures are within $\frac{1}{4}$ mile of the AUM site). There are no wells within four miles of this AUM site. NA-0420 is identified as a reclaimed rim strip/pit. Uranium production information has not yet been identified for this site. Review of the excess bismuth²¹⁴ radiation contour data does not indicate any elevated level in the vicinity. This result suggests that further characterization of the AUM as a potential contaminant source would aid the interpretation of the results.

The second highest scored AUM is the A and B No. 3 Mine (Mine ID# 228) in Cameron Chapter. This AUM site is located approximately one mile northwest of the Cameron Chapter House, approximately $\frac{1}{2}$ mile west of the Cameron Trading Post, and immediately south (within 300 feet) of the Little Colorado River. There are 179 structures within one mile of the AUM and 23 wells within four miles. Excess bismuth²¹⁴ radiation contours are present at the site. Between 1954 and 1955, A and B No. 3 Mine produced 585.97 tons of ore, with 1,457.87 pounds of U₃O₈ (0.12% U₃O₈ grade ore) and 514.95 pounds of

V_2O_5 (0.04% V_2O_5 grade ore) (Chenoweth, 1993). A and B No. 3 Mine was reclaimed by the NAMLRP (NA-0106) and had one rimstrip with associated highwalls and three radioactive mine wastepiles totaling 5,050 bank cubic yards (bcy) in volume (Navajo Abandoned Mine Lands Reclamation Program, 2000). This AUM site is included in the USEPA Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Abandoned Mine Land Inventory (EPA ID NND983466731). This site is not on the National Priorities List, but is recommended for a Site Investigation.

The third highest scored AUM is the Cove Transfer Station (Mine ID# 472) in Cove Chapter, which is located across the street from the Cove Day School. This AUM-related site was added to the AUM GIS dataset using the excess bismuth²¹⁴ radiation contour data. This site scores high due to the presence of 151 structures within one mile (22 of these structures are within $\frac{1}{4}$ mile). There are 16 wells within four miles of this site.

The fourth highest scored AUM is an NAMLRP reclamation site (NA-0424) in Beclabito Chapter. This AUM site is located approximately $\frac{1}{4}$ mile north of the Beclabito Chapter House. There are 172 structures within one mile and nine wells within four miles of the AUM site. Review of the excess bismuth²¹⁴ radiation contour data does not indicate any elevated level in the vicinity. Uranium production values have not yet been identified for this AUM.

The fifth highest scored AUM is the Billy the Kid Mine (Mine ID# 329) in the Baca/Prewitt Chapter. This AUM site is located approximately 1/3 mile east of the Andrews Ranch. There are 43 structures within one mile and 14 wells within four miles of the AUM site. This AUM site has a large surface disturbance (approximately 100 acres) and may contain more than one AUM (Section 19 Mine and Red Top No. 1). Mining of U_3O_8 began in 1950 and ended in 1976, but uranium production values have not yet been identified for this AUM. Aerial radiation surveys were not available in this area.

The sixth highest scored AUM is Occurrence B (Mine ID# 296) in the Chinle Chapter. This uranium occurrence is located approximately 2,300 feet southeast of the settlement of Del Muerto. There are 170 structures within one mile and four wells within four miles. The occurrence had radioactive rocks (up to 4x background) in the southwestern part of a stripped area 500 x 470 feet across and ten feet deep. On the Del Muerto, Arizona 7 $\frac{1}{2}$ ' topo map (provisional 1982) the scraped area is labeled as a borrow pit. There was no production associated with this occurrence. Analytical results of grab samples collected by the USGS for the National Uranium Resource Evaluation Program (NURE) showed uranium at 3.22 parts per million (ppm) and vanadium at 47 ppm (Chenoweth, 1990). Review of the excess bismuth²¹⁴ radiation contour data does not indicate any elevated level in the vicinity.

The seventh highest scored AUM is the Northeast Church Rock (NECR) Mine (Mine ID# 304) in the Pinedale Chapter. This AUM is located approximately 16 miles northeast of Gallup, New Mexico. The NECR mine operated between 1972 and 1982 by United Nuclear Corporation (McLemore, 2002), and closure of the NECR was performed between 1986 and 1994 (MWH, 2004). There are 58 structures within one mile (ten structures on the AUM site) and 12 wells within four miles. This AUM site has a large surface disturbance. Uranium production values have not yet been collected for this AUM, but McLemore reports U_3O_8 production ranging from a minimum of 2,000,001 pounds to a maximum of 20,020,000 pounds. Aerial radiation surveys were not flown in this area.

The eighth highest scored AUM is the Rock Door Mine (Mine ID# 223) in the Oljato Chapter. This AUM is located approximately 0.8 miles northwest of Gouldings Trading Post. There are 108 structures within one mile and 29 wells within four miles. Excess bismuth²¹⁴ radiation contours are not present at the site. From 1953 – 1954, Rock Door Mine produced 25.33 tons of ore, with 331.26 pounds of U_3O_8 (0.65% U_3O_8 grade ore) and 936.92 pounds of V_2O_5 (1.85% V_2O_5 grade ore) (Chenoweth, 1991). Rock

Door Mine was reclaimed by the NAMLRP (NA-0237), with mine workings consisting of three short adits (Chenoweth, 1991).

The ninth highest scored AUM is the Keith Mine – A (Mine ID# 225) in the Oljato Chapter. This AUM is located on the western tip of Oljato Mesa, approximately 0.8 miles east of the Oljato Trading Post. There are 71 structures within one mile and 26 wells within four miles. Excess bismuth²¹⁴ radiation contours are not present at the site. From 1954 – 1955, Keith Mine –A produced 58.59 tons of ore, with 236.57 pounds of U₃O₈ (0.27% U₃O₈ grade ore) and 178.67 pounds of V₂O₅ (0.21% V₂O₅ grade ore) (Chenoweth, 1991). Keith Mine – A was reclaimed by the NAMLRP (NA-0214), with mine workings consisting of two short adits and some rim stripping (Chenoweth, 1991).

The tenth highest scored AUM is the A and B No. 2 Mine (Mine ID# 175) in Cameron Chapter. This AUM site is located approximately 2.8 miles southwest of the Cameron Chapter House. There are 89 structures within one mile of the AUM and 22 wells within four miles. Excess bismuth²¹⁴ radiation contours are present at the site. During 1954, A and B No. 2 Mine produced 121.9 tons of ore, with 679.7 pounds of U₃O₈ (0.28% U₃O₈ grade ore) and 318.74 pounds of V₂O₅ (0.13% V₂O₅ grade ore) (Chenoweth, 1993). A and B No. 3 Mine was reclaimed by the NAMLRP (NA-0108) and had four rimstrips on three separate mesas containing a two foot thick top layer of unmined rock that showed scattered but elevated levels of radioactivity. There was strong evidence present of site visitation by children who played with the rocks. The mine waste (overburden rock) had been dumped along the edges and slopes of the mesa during mining. The estimated volume of radioactive material that needed to be excavated and buried was approximately 2,500 bcy in volume (Navajo Abandoned Mine Lands Reclamation Program, 2000).

The method used to prioritize the AUM sites is based on a limited subset of the locational-distance criteria in the HRS. It does not include many of the other criteria and factors built into the HRS model. Therefore, the scores derived under this model cannot be considered to be reflective of an HRS score, but are meant only to begin the process of prioritization based on distance from the AUM source.

Results from the HRS-derived screening model allowed the development of a scored list of AUM sites on and within one mile of the Navajo Nation. The scoring is not intended to identify actual risks, but is meant to provide an initial screening of priority AUM sites for further investigation. Due to the subset of criteria used in the HRS-derived model, the analysis resulted in some cases where AUM sites with little to no waste (e.g. prospect with no uranium production) scored high due to its close proximity to structures and wells. Conversely, some AUM sites with potentially high volumes of waste scored low due to their remote locations with few structures or wells in close proximity.

The prioritization process can be enhanced by the addition of more factors, criteria, and data into the model. Examples include the addition of data such as waste quantities (production volumes), radiation measurements with above background values, the type and extent of the AUMs, and criteria for sensitive environments (e.g. endangered species, wetlands, and cultural data). The goal of this type of refinement would be to improve the accuracy of the model and assist in the decision-making process.

REFERENCES

- Chenoweth, William L., 1990. "Uranium Occurrences on the Zhealy Tso Mining Permit Near Chinle, Apache County, Arizona." Arizona Geological Survey, Contributed Report No. 90B.
- Chenoweth, William L., 1991. "The Geology and Production History of the Uranium-Vanadium Deposits in Monument Valley, San Juan County, Utah. Utah Geological and Mineral Survey, Contract Report 91-4.
- Chenoweth, William L., 1993. "Geology and Production History of the Uranium Ore Deposits in the Cameron Area, Coconino County, Arizona." Arizona Geological Survey, Contributed Report No. 93-B.
- Hendricks, Thane J., 2001. "An Aerial Radiological Survey of Abandoned Uranium Mines in the Navajo Nation - Surveys Conducted in Arizona, New Mexico, and Utah, Date of Surveys: 1994—1999." DOE/NV/11718-602, Remote Sensing Laboratory operated by Bechtel Nevada for the U.S. Department of Energy, National Nuclear Security Administration, Las Vegas, Nevada. 24 p.
- McLemore, Virginia T., et al., 2002. "Uranium Mines, Prospects, Occurrences, and Mills in New Mexico." New Mexico Bureau of Geology and Mineral Resources, New Mexico Institute of Mining and Technology, Open File Report-461.
- MWH, 2004. "Northeast Church Rock Mine Closeout Plan." Plan prepared for United Nuclear Corporation.
- Navajo Abandoned Mine Lands Reclamation Program, 2000. "Cameron 5 AML Reclamation Project Technical Specifications." Navajo Abandoned Mine Lands Reclamation Program.
- Navajo Nation Department of Water Resources, 2000. "Water Resource Development Strategy for the Navajo Nation." Strategic Plan dated July 17, 2000, 71p.
- Scarborough, Robert B., 1981. "Radioactive Occurrences and Uranium Production in Arizona – Final Report." Arizona Geological Survey, Open File Report 81-1, 297 pages plus map plates.
- Sprinkel, Douglas A., 1999. "Digital Geologic Resources Atlas of Utah." Utah Geological Survey, a division of the Utah Department of Natural Resources, Bulletin 129DF.
- U.S. Environmental Protection Agency, 2000. "Abandoned Mine Site Characterization and Cleanup Handbook." EPA 910-B-00-001, U. S. Environmental Protection Agency Region 10, August, 2000, 130 p.
- U.S. Environmental Protection Agency, 1991. "Guidance for Performing Preliminary Assessments Under CERCLA." Office of Emergency and Remedial Response. EPA/540/G-91/013, Publication 9345.0-01A., 276 p.
- U.S. Environmental Protection Agency, 1990. "40 CFR Part 300, Hazard Ranking System - Final Rule." Federal Register, Volume 55, No. 241, Friday, December 14, 1990.

TABLE 1. Air and Soil Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Structures on Mine Count	200 Foot Structures Count	1/4 Mile Structures Count	1 Mile Structures Count	Total Structures	200 Foot Score	1/4 Mile Score	1 Mile Score	Total Air/Soil Score
276	NA-0420		Beclabito			68	107	175	0	1700	1070	1070	2770
472	Cove Transfer Station	Cove Transfer Station	Cove		2	22	127	151	200	550	1270	2020	
228	NA-0106	A & B No. 3	Cameron			15	164	179	0	375	1640	2015	
277	NA-0424		Beclabito		1	9	162	172	100	225	1620	1945	
296	Occurrence B	Occurrence B	Chinle		1	2	166	170	200	50	1660	1910	
329	NMMK0014 NMMK0073 NMMK0200	Billy the Kid	Baca/Prewitt		13	1	1	28	43	1400	25	280	1705
304	NMMK0117 NMMK0315	NE Church Rock	Pinedale		10		15	33	58	1000	375	330	1705
223	NA-0237	Rock Door Mine	Ojato				1	107	108	0	25	1070	1095
225	NA-0214	Keith Mine - A	Ojato				18	53	71	0	450	530	980
344	NMMK0081	Haystack	Baca/Prewitt		1		16	41	58	100	400	410	910
175	NA-0108	A & B No. 2	Cameron				1	88	89	0	25	880	905
305	NMMK0112	Church Rock No. 1	Coyote Canyon		2		7	40	49	200	175	400	775
317	NMMK0102	Mariano Lake	Mariano Lake				18	27	45	0	450	270	720
343	NMMK0195	Section 18	Baca/Prewitt				10	41	51	0	250	410	660
307	NMMK0034 NMMK0318 NMMK0319	Church Rock	Church Rock		1		2	48	51	100	50	480	630
72	NA-0902 NA-0918		Teeec Nos Pos				11	34	45	0	275	340	615
310	NMMK0028	CD and S	Church Rock				6	45	51	0	150	450	600
124	NA-0129	Charles Huskon No. 1	Coalmine Canyon				0	60	60	0	0	600	600
110	NA-0551	Foutz No. 2	Church Rock				1	57	58	0	25	570	595
160	NA-0124a	Jack Daniels No. 1-5	Coalmine Canyon				3	51	54	0	75	510	585
119	NA-0125	Charles Huskon No. 12	Coalmine Canyon				8	36	44	0	200	360	560
19	NA-0808		Red Valley			1	10	20	31	100	250	200	550
292	NA-0900		Teeec Nos Pos				8	31	39	0	200	310	510
80	NA-0706		Tachee/Blue Gap				6	33	39	0	150	330	480
71	NA-0902 NA-0917A NA-0917B		Teeec Nos Pos				5	35	40	0	125	350	475
323	NMMK0147 NMMK0260	Ruby No. 3	Smith Lake		1	1	34	36	100	25	340	465	
478	Oak156		Red Valley				0	46	46	0	0	460	460
479	NA-0822		Red Valley				0	46	46	0	0	460	460
480	NA-0821	Stripped Area 3 of VCA Plot 3	Red Valley				0	46	46	0	0	460	460
342	NMMK0080	Haystack	Baca/Prewitt				5	33	38	0	125	330	455
301	NMMK0102	Mariano Lake	Mariano Lake				11	18	29	0	275	180	455
330	NMMK0141	Red Top	Baca/Prewitt				6	30	36	0	150	300	450
481	NA-0806		Red Valley				0	45	45	0	0	450	450
125	NA-0127		Coalmine Canyon				0	44	44	0	0	440	440
318	NMMK0097	Mac No. 1	Mariano Lake				7	26	33	0	175	260	435
328	NMMK0140	Red Top	Baca/Prewitt				6	27	33	0	150	270	420

TABLE 1. Air and Soil Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Structures on Mine Count	200 Foot Structures Count	1/4 Mile Structures Count	1 Mile Structures Count	Total Structures	200 Foot Score	1/4 Mile Score	1 Mile Score	Total Air/Soil Score
224	NA-0215	Norcross Mine - A	Ojato			0	42	42	42	0	0	420	420
345	NMMK0077	Haystack	Baca/Prewitt			6	26	32	0	150	260	410	
492	Tse079		Teeec Nos Pos			0	41	41	0	0	410	410	
70	NA-0918		Teeec Nos Pos			0	40	40	0	0	400	400	
42	NA-0828	Red Rock Mine	Red Valley			1	37	38	0	25	370	395	
20	NA-0800	Oak Springs Mine (Gravel Cap)	Red Valley			8	19	27	0	200	190	390	
491	NA-0907		Teeec Nos Pos			0	39	39	0	0	390	390	
303	NMMK0113												
	NMMK0116	Church Rock No. 1-East	Nahodishgish			2	33	35	0	50	330	380	
188	NA-0509B		Sweetwater			0	38	38	0	0	380	380	
128	NA-0130	Max Johnson No. 10	Coalmine Canyon			0	37	37	0	0	370	370	
483	NA-0815		Red Valley			0	36	36	0	0	360	360	
315	NMMK0038	Crownpoint	Nahodishgish	1		0	25	26	100	0	250	350	
482	Oak143		Red Valley			0	35	35	0	0	350	350	
313	NMMK0230	Section 28	Church Rock			3	27	30	0	75	270	345	
78	NA-0701		Black Mesa			2	29	31	0	50	290	340	
79	NA-0701		Black Mesa			2	29	31	0	50	290	340	
426	Cov098		Cove			0	34	34	0	0	340	340	
432	Oak221	Rocky Spring Mine	Red Valley			2	28	30	0	50	280	330	
114	NA-0922B		Sweetwater			0	33	33	0	0	330	330	
245	NA-0210	Monument #1 Annex Mine	Ojato			2	27	29	0	50	270	320	
319	NMMK0016	Black Jack No. 2	Smith Lake	1		0	22	23	100	0	220	320	
322	NMMK0015	Black Jack No. 1	Smith Lake			3	24	27	0	75	240	315	
126	NA-0128A	Lemuel Littleman No. 2	Coalmine Canyon			0	31	31	0	0	310	310	
239	NA-0226	Harvey Blackwater Claim (North)	Kayenta		1	5	8	14	100	125	80	305	
43	NA-0828		Red Valley			1	28	29	0	25	280	305	
284	NA-0931		Teeec Nos Pos			5	18	23	0	125	180	305	
341	NMMK0079	Haystack	Baca/Prewitt			2	25	27	0	50	250	300	
209	NA-0550	Foutz 3	Church Rock	Iyanbito		0	30	30	0	0	300	300	
353	NMMK0220	Section 25	Off Navajo Nation			0	30	30	0	0	300	300	
	NMMK0145												
	NMMK0146												
321	NMMK0148	Ruby No. 1	Smith Lake			4	20	24	0	100	200	300	
52	NA-0910		Sweetwater			0	30	30	0	0	300	300	
116	NA-0919A		Teeec Nos Pos			0	30	30	0	0	300	300	
65	NA-0923		Teeec Nos Pos			1	27	28	0	25	270	295	
474	NMMK0152	Section 1	Baca/Prewitt			0	29	29	0	0	290	290	
1	NA-0828	Red Wash Mine (Leroy Pettigrew)	Red Valley			0	29	29	0	0	290	290	
441	Oak230		Red Valley			0	29	29	0	0	290	290	
346	NMMK0168	Section 5	Baca/Prewitt			0	28	28	0	0	280	280	
	NMMK0221												
	NMMK0207												
364	NMMK0338	Section 26	Baca/Prewitt	Off Navajo Nation		8	8	16	0	200	80	280	
308	NMMK0124	Section 13	Church Rock			0	27	27	0	0	270	270	

TABLE 1. Air and Soil Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Structures on Mine Count	200 Foot Structures Count	1/4 Mile Structures Count	1 Mile Structures Count	Total Structures	200 Foot Score	1/4 Mile Score	1 Mile Score	Total Air/Soil Score
127	NA-0128B	Lemuel Littleman No. 2	Coalmine Canyon			0	27	27	0	0	270	270	
68	NA-0911		Teeec Nos Pos			2	22	24	0	50	220	270	
69	NA-0919B		Teeec Nos Pos			0	27	27	0	0	270	270	
120	NA-0123	Charles Huskon No. 19	Coalmine Canyon			3	19	22	0	75	190	265	
	NMMK0064												
450	NMMK0259	Febco	Baca/Prewitt			0	26	26	0	0	260	260	
191	NA-0507	Toh Atin Mesa Mine	Red Mesa			0	26	26	0	0	260	260	
309	NMMK0209	Section 23	Church Rock			3	18	21	0	75	180	255	
			Sweetwater	Teeec Nos Pos		1	23	24	0	25	230	255	
57	NA-0915		Ojato			0	25	25	0	0	250	250	
			Sweetwater	Teeec Nos Pos		0	25	25	0	0	250	250	
51	NA-0909		Crownpoint			0	24	24	0	0	240	240	
316	NMMK0040		Teeec Nos Pos	Sweetwater		0	24	24	0	0	240	240	
113	NA-0922A		Red Valley			1	21	22	0	25	210	235	
440	Oak238		Chilchinbeto			0	23	23	0	0	230	230	
74	NA-0712		Ojato			0	23	23	0	0	230	230	
247	NA-0210	Mitten #2 - A				0	23	23	0	0	230	230	
189	NA-0509A		Red Mesa			6	8	14	0	150	80	230	
108	NA-0922C		Sweetwater			0	22	22	0	0	220	220	
373	Cam018		Coalmine Canyon			5	9	14	0	125	90	215	
254	NA-0212	Skyline Mine - East				1	19	20	0	25	190	215	
64	NA-0929		Teeec Nos Pos			3	14	17	0	75	140	215	
327	NMMK0055	Elkins	Baca/Prewitt			0	21	21	0	0	210	210	
464			Off Navajo Nation		2	0	1	3	200	0	10	210	
484	NA-0809		Red Valley			0	21	21	0	0	210	210	
487	NA-0811	King Tutt Point Mines	Red Valley			2	16	18	0	50	160	210	
230	NA-0124B	Kachina No. 6	Coalmine Canyon			1	18	19	0	25	180	205	
326	NMMK0057	Elkins	Baca/Prewitt			0	20	20	0	0	200	200	
246	NA-0210	Monument #1 - A	Ojato			0	20	20	0	0	200	200	
248	NA-0233	Alma-Seggin Mine	Ojato			0	20	20	0	0	200	200	
21	NA-0405		Red Valley			0	20	20	0	0	200	200	
18	NA-0801		Red Valley			1	17	18	0	25	170	195	
	NA-0925												
61	NA-0903		Teeec Nos Pos			1	17	18	0	25	170	195	
384	Cam051		Cameron			0	19	19	0	0	190	190	
6	NA-0804	Lookout Point Incline Mine	Red Valley			0	19	19	0	0	190	190	
253	NA-0200	Moonlight Mine	Ojato			1	16	17	0	25	160	185	
435	Swt036		Sweetwater			3	11	14	0	75	110	185	
354	NMMK0214	Section 24	Off Navajo Nation		1	0	8	9	100	0	80	180	
181	NA-0217	Harvey Black Mine	Ojato			0	18	18	0	0	180	180	
50	NA-0914	Sah Tah Mine	Sweetwater	Teeec Nos Pos		0	18	18	0	0	180	180	
302	NMMK0247	Section 32, 33	Casamero Lake	Baca/Prewitt		1	15	16	0	25	150	175	
109	NA-0922C		Sweetwater			0	17	17	0	0	170	170	
66	NA-0905		Teeec Nos Pos	Sweetwater		0	17	17	0	0	170	170	
250	NA-0209	Black Rock Mine	Ojato			1	14	15	0	25	140	165	

TABLE 1. Air and Soil Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Structures on Mine Count	200 Foot Structures Count	1/4 Mile Structures Count	1 Mile Structures Count	Total Structures	200 Foot Score	1/4 Mile Score	1 Mile Score	Total Air/Soil Score
473	NMMK0159	Section 2	Baca/Prewitt				0	16	16	0	0	160	160
166	NA-0116		Bodaway/Gap			0	16	16	0	0	0	160	160
229	NA-0124C	Jack Daniels No. 1-5	Coalmine Canyon			0	16	16	0	0	0	160	160
22	NA-0406	Leroy Mine	Red Valley			0	16	16	0	0	0	160	160
67	NA-0924		Sweetwater	Teeec Nos Pos			0	16	16	0	0	160	160
59	NA-0904		Teeec Nos Pos	Sweetwater			0	16	16	0	0	160	160
75	NA-0705		Chilchinbeto			3	8	11	0	75	80	155	
76	NA-0710		Chilchinbeto			3	8	11	0	75	80	155	
340	NMMK0258	Silver Spur	Baca/Prewitt			0	15	15	0	0	150	150	
351	NMMK0090	Junior	Baca/Prewitt			0	15	15	0	0	150	150	
475	NMMK0277	Unknown	Baca/Prewitt			4	5	9	0	100	50	150	
8	NA-0814		Red Valley			0	15	15	0	0	150	150	
53	NA-0921A		Sweetwater	Teeec Nos Pos			0	15	15	0	0	150	150
60	NA-0916		Teeec Nos Pos	Sweetwater			0	15	15	0	0	150	150
89	NA-0750		Teesto				0	15	15	0	0	150	150
2	NA-0817		Red Valley			5	2	7	0	125	20	145	
306	NMMK0114	Church Rock No. 2	Coyote Canyon			0	14	14	0	0	0	140	140
249	NA-0209	Black Rock Mine	Ojato			0	14	14	0	0	0	140	140
449	Swt047		Red Mesa			0	14	14	0	0	0	140	140
219	NA-0518		Sweetwater			0	14	14	0	0	0	140	140
3	NA-0816		Red Valley			3	6	9	0	75	60	135	
41	NA-0818		Red Valley			1	11	12	0	25	110	135	
406	Blk029		Black Mesa			0	13	13	0	0	0	130	130
135	NA-0138	Boyd Tisi No. 2	Coalmine Canyon			4	3	7	0	100	30	130	
136	NA-0139	Juan Horse No. 3	Coalmine Canyon			4	3	7	0	100	30	130	
359	NMMK0175	Section 10	Off Navajo Nation		1	0	3	4	100	0	30	130	
	NMMK0219												
363	NMMK0215	Section 25 Open Pit	Off Navajo Nation			0	13	13	0	0	130	130	
220	NA-0508B		Red Mesa			4	3	7	0	100	30	130	
7	NA-0820	Stripped Area 1 of VCA Plot 3	Red Valley			0	13	13	0	0	130	130	
23	NA-0407	Lower Canyon Mine	Red Valley			0	13	13	0	0	130	130	
58	NA-0926		Sweetwater	Teeec Nos Pos			0	13	13	0	0	130	130
217	NA-0506		Sweetwater			0	13	13	0	0	130	130	
402	Blk002		Chilchinbeto			1	10	11	0	25	100	125	
62	NA-0927		Teeec Nos Pos			1	10	11	0	25	100	125	
331	NMMK0076	Haven	Baca/Prewitt			0	12	12	0	0	120	120	
312	NMMK0083	Hogback	Church Rock			0	12	12	0	0	120	120	
131	NA-0134	Alice Tolino No. 1 & 3	Coalmine Canyon			0	12	12	0	0	120	120	
31	NA-0825	Upper Red Wash Mine	Red Valley		1	0	2	3	100	0	20	120	
485	NA-0812	Begay No. 1 and Carrizo No. 1 Mines	Red Valley			2	7	9	0	50	70	120	
486	Oak125		Red Valley			2	7	9	0	50	70	120	

TABLE 1. Air and Soil Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Structures on Mine Count	200 Foot Structures Count	1/4 Mile Structures Count	1 Mile Structures Count	Total Structures	200 Foot Score	1/4 Mile Score	1 Mile Score	Total Air/Soil Score
488	NA-0807	Begay No. 1 and Carrizo No. 1 Mines	Red Valley			2	7	9	0	50	70	120	
218	NA-0506		Sweetwater			0	12	12	0	0	120	120	
436	Swt018		Sweetwater			4	2	6	0	100	20	120	
513	NA-0222		Ojato			1	9	10	0	25	90	115	
514	Mon011	Naschoy Mine	Ojato			1	9	10	0	25	90	115	
332	NMMK0136	Red Cap	Baca/Prewitt			0	11	11	0	0	110	110	
383	Cam052		Cameron			0	11	11	0	0	110	110	
400	Blk001		Chilchinbeto			0	11	11	0	0	110	110	
401	Blk001a		Chilchinbeto			0	11	11	0	0	110	110	
55	NA-0912		Sweetwater	Teeec Nos Pos		2	6	8	0	50	60	110	
56	NA-0920		Sweetwater			2	6	8	0	50	60	110	
314	NMMK0047	Diamond No. 2	Church Rock			1	8	9	0	25	80	105	
476	NMMK0085	Hutton-James	Baca/Prewitt			0	10	10	0	0	100	100	
46	NA-0403		Beclabito			2	5	7	0	50	50	100	
443	Bec060		Beclabito			2	5	7	0	50	50	100	
104	NA-0320		Cove			0	10	10	0	0	100	100	
399	Mon019	Sally Mine	Kayenta			0	10	10	0	0	100	100	
521	NA-0204	Willie Water Claim	Kayenta			0	10	10	0	0	100	100	
392	Mon030	Tract 24 Mine - B	Ojato			2	5	7	0	50	50	100	
63	NA-0928		Teeec Nos Pos	Sweetwater		4	0	4	0	100	0	100	
115	NA-0921B		Teeec Nos Pos	Sweetwater		0	10	10	0	0	100	100	
350	NMMK0123	Pat	Baca/Prewitt			0	9	9	0	0	90	90	
73	NA-0711		Chilchinbeto			0	9	9	0	0	90	90	
365	NMMK0218	Section 25 SEQ	Off Navajo Nation			0	9	9	0	0	90	90	
9	NA-0803	Lookout Point Mines	Red Valley			0	9	9	0	0	90	90	
10	NA-0810	Begay No. 2 Mine	Red Valley			0	9	9	0	0	90	90	
16	NA-0823	Upper Salt Rock Canyon Mine	Red Valley			0	9	9	0	0	90	90	
54	NA-0908		Sweetwater	Teeec Nos Pos		0	9	9	0	0	90	90	
187	NA-0500		Sweetwater			0	9	9	0	0	90	90	
358	NMMK0051	Dysart No. 1	Off Navajo Nation			1	6	7	0	25	60	85	
452	7	A & B No. 13	Bodaway/Gap			0	8	8	0	0	80	80	
300	Zhealy Tso, N. Part Parcel 1	Zhealy Tso	Chinle			0	8	8	0	0	80	80	
238	NA-0226	Harvey Blackwater Claim (South)	Kayenta			0	8	8	0	0	80	80	
391	Mon029	Tract 24 Mine - A	Ojato			2	3	5	0	50	30	80	
4	NA-0826		Red Valley			0	8	8	0	0	80	80	
30	NA-0817	Red Wash Mine (Hosteen S. Begay)	Red Valley			0	8	8	0	0	80	80	
216	NA-0504		Sweetwater			0	8	8	0	0	80	80	
283	NA-0930		Teeec Nos Pos			0	8	8	0	0	80	80	
118	NA-0105a	Henry Sloan No. 1	Bodaway/Gap			3	0	3	0	75	0	75	
333	NMMK0345	Yucca	Baca/Prewitt			0	7	7	0	0	70	70	

TABLE 1. Air and Soil Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Structures on Mine Count	200 Foot Structures Count	1/4 Mile Structures Count	1 Mile Structures Count	Total Structures	200 Foot Score	1/4 Mile Score	1 Mile Score	Total Air/Soil Score
123	NA-0141	Juan Horse No. 4	Coalmine Canyon			0	7	7	0	0	70	70	70
134	NA-0137	Yazzie No. 312	Coalmine Canyon			0	7	7	0	0	70	70	70
240	NA-0226		Kayenta			0	7	7	0	0	70	70	70
226	NA-0218	Monument #3 Mine	Ojato			0	7	7	0	0	70	70	70
190	NA-0508A		Red Mesa			0	7	7	0	0	70	70	70
448	Swt048		Red Mesa			0	7	7	0	0	70	70	70
15	NA-0802	Franks Point Mine	Red Valley			0	7	7	0	0	70	70	70
320	NMMK0098	Mac No. 2	Smith Lake			0	7	7	0	0	70	70	70
295	MP206	MP206	Teeec Nos Pos			0	7	7	0	0	70	70	70
112	NA-0229	Montezuma Creek Mine	Aneth			0	6	6	0	0	60	60	60
325	NMMK0257	Silver Bit	Baca/Prewitt			0	6	6	0	0	60	60	60
349	NMMK0123	Pat	Baca/Prewitt			0	6	6	0	0	60	60	60
85	NA-0703		Black Mesa			0	6	6	0	0	60	60	60
117	NA-0105b	Henry Sloan No. 1	Bodaway/Gap			2	1	3	0	50	10	60	60
121	NA-0113	Jeepster No. 1	Coalmine Canyon			0	6	6	0	0	60	60	60
237	NA-0213		Dennehotso			0	6	6	0	0	60	60	60
255	NA-0212	Mitten #1 'A'	Ojato			0	6	6	0	0	60	60	60
260	NA-0211	Mitten 31 Mine	Ojato			0	6	6	0	0	60	60	60
5	NA-0824		Red Valley			0	6	6	0	0	60	60	60
477	NA-0805	Shadyside Incline	Red Valley			0	6	6	0	0	60	60	60
348	NMMK0041	Dakota	Baca/Prewitt			0	5	5	0	0	50	50	50
356	NMMK0206	Section 22	Baca/Prewitt	Off Navajo Nation		2	0	2	0	50	0	50	
	Zhealy Tso, S. Part Parcel 1	Zhealy Tso	Chinle			0	5	5	0	0	50	50	
421	Cov099	Frank Jr. Mine	Cove			0	5	5	0	0	50	50	
291	NA-0751		Indian Wells			0	5	5	0	0	50	50	
355	NMMK0208	Section 23	Off Navajo Nation			0	5	5	0	0	50	50	
463	88	Black Point-Murphy Group	Off Navajo Nation			2	0	2	0	50	0	50	
394	Mon006	Joe Rock Mine	Ojato			0	5	5	0	0	50	50	
11	NA-0813		Red Valley			0	5	5	0	0	50	50	
24	NA-0408		Red Valley			0	5	5	0	0	50	50	
184	NA-0505A		Sweetwater			0	5	5	0	0	50	50	
185	NA-0505B		Sweetwater			0	5	5	0	0	50	50	
186	NA-0505C		Sweetwater			0	5	5	0	0	50	50	
92	NA-0104	Charles Huskon No. 6	Coalmine Canyon			1	2	3	0	25	20	45	
352	NMMK0164	Section 4	Baca/Prewitt			0	4	4	0	0	40	40	
451	8	A & B No. 7	Bodaway/Gap			0	4	4	0	0	40	40	
132	NA-0136	Yazzie No. 101	Coalmine Canyon			0	4	4	0	0	40	40	
133	NA-0135	Evans Huskon No. 2	Coalmine Canyon			0	4	4	0	0	40	40	
155	NA-0196A	RAMCO No. 24	Coalmine Canyon			0	4	4	0	0	40	40	
		Charles Huskon No. 4 & Paul Huskie No. 3	Coalmine Canyon			0	4	4	0	0	40	40	
374	Cam012		Coalmine Canyon			0	4	4	0	0	40	40	
357	NMMK0183	Section 15	Off Navajo Nation			0	4	4	0	0	40	40	
360	NMMK0019	Bobcat	Off Navajo Nation			0	4	4	0	0	40	40	
393	Mon013	Daylight Mine	Ojato			0	4	4	0	0	40	40	

TABLE 1. Air and Soil Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Structures on Mine Count	200 Foot Structures Count	1/4 Mile Structures Count	1 Mile Structures Count	Total Structures	200 Foot Score	1/4 Mile Score	1 Mile Score	Total Air/Soil Score
12	NA-0827	Williams Point Mine	Red Valley			0	4	4	0	0	40	40	
212	NA-0515		Sweetwater			0	4	4	0	0	40	40	
84	NA-0708		Tselani/Cottonwood			0	4	4	0	0	40	40	
404	Bfk022		Tselani/Cottonwood			0	4	4	0	0	40	40	
32	NA-0825	Upper Red Wash Mine	Red Valley			1	1	2	0	25	10	35	
265	NA-0413		Beclabito			0	3	3	0	0	30	30	
266	NA-0413		Beclabito			0	3	3	0	0	30	30	
299	Zhealy Tso, W. Part Parcel 1	Zhealy Tso	Chinle			0	3	3	0	0	30	30	
156	NA-0196B	RAMCO No. 24	Coalmine Canyon			0	3	3	0	0	30	30	
158	NA-0195	Julius Chee No. 2	Coalmine Canyon			0	3	3	0	0	30	30	
159	NA-0194	Julius Chee No. 3	Coalmine Canyon			0	3	3	0	0	30	30	
233	NA-0110A	Max Johnson No. 7	Coalmine Canyon			0	3	3	0	0	30	30	
235	NA-0197B	Charles Huskon No. 18	Coalmine Canyon			0	3	3	0	0	30	30	
101	NA-0314		Cove			0	3	3	0	0	30	30	
423	Cov026		Cove			0	3	3	0	0	30	30	
182	NA-0216	Tom Holiday Mine	Ojato			0	3	3	0	0	30	30	
517	NA-0234		Ojato			0	3	3	0	0	30	30	
518	Mon077		Ojato			0	3	3	0	0	30	30	
519	NA-0219	Big Four Mine	Ojato			0	3	3	0	0	30	30	
17	NA-0818		Red Valley			0	3	3	0	0	30	30	
26	NA-0409	Hazel Mine	Red Valley			0	3	3	0	0	30	30	
27	NA-0410	Lone Star Mine	Red Valley			0	3	3	0	0	30	30	
28	NA-0411	Cottonwood Butte Mine	Red Valley			0	3	3	0	0	30	30	
289	NA-0823	Lower Salt Rock Canyon Mine	Red Valley			0	3	3	0	0	30	30	
77	NA-0700		Rough Rock			0	3	3	0	0	30	30	
172	NA-0113		Bodaway/Gap			1	0	1	0	25	0	25	
382	Cam043		Cameron			1	0	1	0	25	0	25	
98	NA-0313		Cove			1	0	1	0	25	0	25	
417	Cov053		Cove			1	0	1	0	25	0	25	
424	Cov052		Cove			1	0	1	0	25	0	25	
370	NMMK0235	Section 30	Off Navajo Nation			1	0	1	0	25	0	25	
336	NMMK0002	Alta	Baca/Prewitt			0	2	2	0	0	20	20	
47	NA-0404		Beclabito			0	2	2	0	0	20	20	
270	NA-0418		Beclabito			0	2	2	0	0	20	20	
271	NA-0417		Beclabito			0	2	2	0	0	20	20	
272	NA-0418		Beclabito			0	2	2	0	0	20	20	
281	NA-0419		Beclabito			0	2	2	0	0	20	20	
442	Bec054		Beclabito			0	2	2	0	0	20	20	
178	NA-0103B	Earl Huskon No. 1	Bodaway/Gap			0	2	2	0	0	20	20	
298	Zhealy Tso, W. Part Parcel 1	Zhealy Tso	Chinle			0	2	2	0	0	20	20	
105	NA-0319		Cove			0	2	2	0	0	20	20	
106	NA-0316	Frank No. 1 Mines	Cove			0	2	2	0	0	20	20	
107	NA-0316		Cove			0	2	2	0	0	20	20	
415	Cov230		Cove			0	2	2	0	0	20	20	

TABLE 1. Air and Soil Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Structures on Mine Count	200 Foot Structures Count	1/4 Mile Structures Count	1 Mile Structures Count	Total Structures	200 Foot Score	1/4 Mile Score	1 Mile Score	Total Air/Soil Score
469	NA-0319		Cove			0	2	2	2	0	0	20	20
505	NA-0317		Cove			0	2	2	2	0	0	20	20
506	Cov086		Cove			0	2	2	2	0	0	20	20
507	Cov087		Cove			0	2	2	2	0	0	20	20
508	NA-0317		Cove			0	2	2	2	0	0	20	20
509	NA-0317		Cove			0	2	2	2	0	0	20	20
510	NA-0301	Frank No. 1 Mines	Cove			0	2	2	2	0	0	20	20
252	NA-0201	Boot Jack Mine	Ojato			0	2	2	2	0	0	20	20
256	NA-0212	Mitten #1 'B'	Ojato			0	2	2	2	0	0	20	20
258	NA-0208		Ojato			0	2	2	2	0	0	20	20
259	NA-0208		Ojato			0	2	2	2	0	0	20	20
396	Mon065		Ojato			0	2	2	2	0	0	20	20
516	NA-0211	C-3 Mine	Ojato			0	2	2	2	0	0	20	20
520	Mon007	Big Four Mine	Ojato			0	2	2	2	0	0	20	20
44	NA-0610		Sanostee			0	2	2	2	0	0	20	20
211	NA-0513		Sweetwater			0	2	2	2	0	0	20	20
274	NA-0511		Sweetwater			0	2	2	2	0	0	20	20
275	NA-0511		Sweetwater			0	2	2	2	0	0	20	20
294	W027031	PETE 6 & 7	Aneth	Off Navajo Nation		0	1	1	0	0	10	10	
324	NMMK0255	Silver Bit	Baca/Prewitt			0	1	1	0	0	10	10	
347	NMMK0138	Red Point	Baca/Prewitt			0	1	1	0	0	10	10	
183	NA-0102	Paul Huskie No.21	Bodaway/Gap			0	1	1	0	0	10	10	
137	NA-0149d	Charles Huskon No. 3	Cameron			0	1	1	0	0	10	10	
144	NA-0166	Charles Huskon No. 11	Cameron	Off Navajo Nation		0	1	1	0	0	10	10	
170	NA-0164	Taylor Reid No. 2	Cameron			0	1	1	0	0	10	10	
176	NA-0107	Montezuma No. 1	Cameron			0	1	1	0	0	10	10	
232	NA-0155B	Charles Huskon No. 10	Cameron			0	1	1	0	0	10	10	
453	67a	Section 1 Lease	Cameron	Off Navajo Nation		0	1	1	0	0	10	10	
154	NA-0198	Emmet Lee No. 3	Coalmine Canyon			0	1	1	0	0	10	10	
234	NA-0110B	Amos Chee No. 8	Coalmine Canyon			0	1	1	0	0	10	10	
378	Cam062		Coalmine Canyon			0	1	1	0	0	10	10	
96	NA-0312		Cove			0	1	1	0	0	10	10	
97	NA-0312		Cove			0	1	1	0	0	10	10	
100	NA-0315		Cove			0	1	1	0	0	10	10	
416	Cov054		Cove			0	1	1	0	0	10	10	
418	Cov033		Cove			0	1	1	0	0	10	10	
425	Cov000		Cove			0	1	1	0	0	10	10	
361	NMMK0018	Blue Peak	Off Navajo Nation			0	1	1	0	0	10	10	
362	NMMK0216	Section 25	Off Navajo Nation			0	1	1	0	0	10	10	
366	NMMK0218	Section 25 SEQ	Off Navajo Nation			0	1	1	0	0	10	10	
367	NMMK0218	Section 25 SEQ	Off Navajo Nation			0	1	1	0	0	10	10	
368	NMMK0218	Section 25 SEQ	Off Navajo Nation			0	1	1	0	0	10	10	
369	NMMK0218	Section 25 SEQ	Off Navajo Nation			0	1	1	0	0	10	10	
371	NMMK0235	Section 30	Off Navajo Nation			0	1	1	0	0	10	10	

TABLE 1. Air and Soil Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Structures on Mine Count	200 Foot Structures Count	1/4 Mile Structures Count	1 Mile Structures Count	Total Structures	200 Foot Score	1/4 Mile Score	1 Mile Score	Total Air/Soil Score
372	NMMK0235	Section 30	Off Navajo Nation			0	1	1	0	0	0	10	10
454	67b	Section 1 Lease	Off Navajo Nation			0	1	1	0	0	0	10	10
179	NA-0220	Sunlight Mine	Ojato			0	1	1	0	0	0	10	10
	NA-0221												
180	NA-0207	Starlight Mine	Ojato			0	1	1	0	0	0	10	10
515	NA-0211	Taylor Reid Mine - A	Ojato			0	1	1	0	0	0	10	10
14	NA-0819b	Salt Canyon Mines	Red Valley			0	1	1	0	0	0	10	10
	NA-0308	Cove Mesa Mines (Cato Sells)	Red Valley			0	1	1	0	0	0	10	10
34	NA-0341	Cove Mesa Mines (Cato Sells)	Red Valley			0	1	1	0	0	0	10	10
407	San001		Sanostee			0	1	1	0	0	0	10	10
210	NA-0512		Sweetwater			0	1	1	0	0	0	10	10
214	NA-0516		Sweetwater			0	1	1	0	0	0	10	10
215	NA-0516		Sweetwater			0	1	1	0	0	0	10	10
437	Swt002		Sweetwater			0	1	1	0	0	0	10	10
438	Swt003		Sweetwater			0	1	1	0	0	0	10	10
282	NA-0402		Teeec Nos Pos			0	1	1	0	0	0	10	10
81	NA-0702		Tselani/Cottonwood			0	1	1	0	0	0	10	10
334	NMMK0058	Evelyn	Baca/Prewitt			0	0	0	0	0	0	0	0
335	NMMK0071	Frances	Baca/Prewitt			0	0	0	0	0	0	0	0
337	NMMK0249	Section 34	Baca/Prewitt			0	0	0	0	0	0	0	0
338	NMMK0096	Lost Mine	Baca/Prewitt			0	0	0	0	0	0	0	0
339	NMMK0096	Lost Mine	Baca/Prewitt			0	0	0	0	0	0	0	0
29	NA-0412	Upper Red Canyon Mine	Beclabito			0	0	0	0	0	0	0	0
48	NA-0404		Beclabito			0	0	0	0	0	0	0	0
49	NA-0401	Copper Mine	Beclabito			0	0	0	0	0	0	0	0
267	NA-0416		Beclabito			0	0	0	0	0	0	0	0
268	NA-0415		Beclabito			0	0	0	0	0	0	0	0
269	NA-0414		Beclabito			0	0	0	0	0	0	0	0
	NA-0423		Beclabito	Teeec Nos Pos		0	0	0	0	0	0	0	0
279	NA-0422		Beclabito			0	0	0	0	0	0	0	0
280	NA-0421		Beclabito			0	0	0	0	0	0	0	0
444	Bec064		Beclabito			0	0	0	0	0	0	0	0
445	Bec068		Beclabito			0	0	0	0	0	0	0	0
446	Bec090		Beclabito			0	0	0	0	0	0	0	0
447	Bec070		Beclabito			0	0	0	0	0	0	0	0
86	NA0709B		Black Mesa			0	0	0	0	0	0	0	0
87	NA0709A		Black Mesa			0	0	0	0	0	0	0	0
88	NA0709C		Black Mesa			0	0	0	0	0	0	0	0
91	NA-0101	Jimmie Boone B	Bodaway/Gap			0	0	0	0	0	0	0	0
161	NA-0114DAB		Bodaway/Gap			0	0	0	0	0	0	0	0
162	NA-0114DAA		Bodaway/Gap			0	0	0	0	0	0	0	0
163	NA-0114AAB		Bodaway/Gap			0	0	0	0	0	0	0	0
164	NA-0114AAC		Bodaway/Gap			0	0	0	0	0	0	0	0
165	NA-0114AAA		Bodaway/Gap			0	0	0	0	0	0	0	0

TABLE 1. Air and Soil Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Structures on Mine Count	200 Foot Structures Count	1/4 Mile Structures Count	1 Mile Structures Count	Total Structures	200 Foot Score	1/4 Mile Score	1 Mile Score	Total Air/Soil Score
171	NA-0112		Bodaway/Gap			0	0	0	0	0	0	0	0
177	NA-0103A	Earl Huskon No. 3	Bodaway/Gap			0	0	0	0	0	0	0	0
290	NA-0259		Bodaway/Gap			0	0	0	0	0	0	0	0
138	NA-0149c	Charles Huskon No. 3	Cameron			0	0	0	0	0	0	0	0
139	NA-0149b	Charles Huskon No. 3	Cameron			0	0	0	0	0	0	0	0
140	NA-0149A	Charles Huskon No. 3	Cameron			0	0	0	0	0	0	0	0
141	NA-0155A	Charles Huskon No. 10	Cameron			0	0	0	0	0	0	0	0
142	NA-0154	Yazzie No. 102	Cameron			0	0	0	0	0	0	0	0
143	NA-0153	Yazzie No. 102	Cameron			0	0	0	0	0	0	0	0
167	NA-0158B	Charles Huskon No. 8	Cameron			0	0	0	0	0	0	0	0
168	NA-0158A	Charles Huskon No. 8	Cameron			0	0	0	0	0	0	0	0
169	NA-0159	Boyd Tisi No. 1	Cameron			0	0	0	0	0	0	0	0
385	Cam056		Cameron			0	0	0	0	0	0	0	0
456	Cam068b		Cameron			0	0	0	0	0	0	0	0
90	NA-0172a	RAMCO No. 21	Coalmine Canyon			0	0	0	0	0	0	0	0
122	NA-0148	Jack Huskon No. 3	Coalmine Canyon	Cameron		0	0	0	0	0	0	0	0
129	NA-0131b	Max Johnson No. 9	Coalmine Canyon			0	0	0	0	0	0	0	0
130	NA-0131a	Elwood Canyon No. 1	Coalmine Canyon			0	0	0	0	0	0	0	0
145	NA-0163	Ryan No. 1	Coalmine Canyon			0	0	0	0	0	0	0	0
146	NA-0187	Jackpot No. 5	Coalmine Canyon			0	0	0	0	0	0	0	0
147	NA-0186	Jackpot No. 1	Coalmine Canyon			0	0	0	0	0	0	0	0
148	NA-0180	Yazzie No. 2	Coalmine Canyon			0	0	0	0	0	0	0	0
149	NA-0179	Yazzie No. 1	Coalmine Canyon			0	0	0	0	0	0	0	0
150	NA-0172B	RAMCO No. 21	Coalmine Canyon			0	0	0	0	0	0	0	0
151	NA-0173	RAMCO No. 22	Coalmine Canyon			0	0	0	0	0	0	0	0
152	NA-0175	Ryan No. 2	Coalmine Canyon			0	0	0	0	0	0	0	0
153	NA-0174	RAMCO No. 20	Coalmine Canyon			0	0	0	0	0	0	0	0
173	NA-0184	Charles Huskon No. 17	Coalmine Canyon			0	0	0	0	0	0	0	0
174	NA-0109	Jackpot No. 40	Coalmine Canyon			0	0	0	0	0	0	0	0
231	NA-0121	Evans Huskon No. 34	Coalmine Canyon			0	0	0	0	0	0	0	0
236	NA-0111		Coalmine Canyon			0	0	0	0	0	0	0	0
375	Cam033		Coalmine Canyon			0	0	0	0	0	0	0	0
376	Cam042		Coalmine Canyon			0	0	0	0	0	0	0	0
377	Cam057		Coalmine Canyon			0	0	0	0	0	0	0	0
379	Cam042		Coalmine Canyon			0	0	0	0	0	0	0	0
380	Cam060		Coalmine Canyon			0	0	0	0	0	0	0	0
381	Cam061		Coalmine Canyon			0	0	0	0	0	0	0	0
	NA-0300												
	NA-0310B												
	NA-0310C												
93	NA-0310D		Cove			0	0	0	0	0	0	0	0
94	NA-0310A		Cove			0	0	0	0	0	0	0	0
95	NA-0311		Cove			0	0	0	0	0	0	0	0
99	NA-0318		Cove			0	0	0	0	0	0	0	0
102	NA-0318		Cove			0	0	0	0	0	0	0	0
103	NA-0302	Mesa V Mine	Cove			0	0	0	0	0	0	0	0
285	NA-0323		Cove			0	0	0	0	0	0	0	0

TABLE 1. Air and Soil Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Structures on Mine Count	200 Foot Structures Count	1/4 Mile Structures Count	1 Mile Structures Count	Total Structures	200 Foot Score	1/4 Mile Score	1 Mile Score	Total Air/Soil Score
286	NA-0321		Cove			0	0	0	0	0	0	0	0
287	NA-0324		Cove			0	0	0	0	0	0	0	0
288	NA-0322		Cove			0	0	0	0	0	0	0	0
419	Cov027		Cove			0	0	0	0	0	0	0	0
420	Cov068		Cove			0	0	0	0	0	0	0	0
422	Cov030		Cove			0	0	0	0	0	0	0	0
111	NA-0552	Section 3	Iyanbito			0	0	0	0	0	0	0	0
311	NMMK0341	Westwater	Iyanbito			0	0	0	0	0	0	0	0
241	NA-0224		Kayenta			0	0	0	0	0	0	0	0
242	NA-0225	John Yazzie #1 Mine	Kayenta			0	0	0	0	0	0	0	0
243	NA-0235		Kayenta			0	0	0	0	0	0	0	0
244	NA-0235		Kayenta			0	0	0	0	0	0	0	0
398	Mon0076c		Kayenta			0	0	0	0	0	0	0	0
457	71a	Section 9 Lease	Off Navajo Nation			0	0	0	0	0	0	0	0
458	71b	Section 9 Lease	Off Navajo Nation			0	0	0	0	0	0	0	0
459	71c	Section 9 Lease	Off Navajo Nation			0	0	0	0	0	0	0	0
196	UTAML	Whirlwind Mine	Ojato			0	0	0	0	0	0	0	0
221	NA-0223		Ojato			0	0	0	0	0	0	0	0
222	NA-0223		Ojato			0	0	0	0	0	0	0	0
227	NA-0236	Tract 7	Ojato			0	0	0	0	0	0	0	0
251	NA-0206	Big Chief Mine	Ojato			0	0	0	0	0	0	0	0
257	NA-0202		Ojato			0	0	0	0	0	0	0	0
261	NA-0211	Taylor Reid Mine - B	Ojato			0	0	0	0	0	0	0	0
262	NA-0205	Tract 11E	Ojato			0	0	0	0	0	0	0	0
263	NA-0203	Tract 11	Ojato			0	0	0	0	0	0	0	0
264	NA-0228	Tract 14	Ojato			0	0	0	0	0	0	0	0
386	Mon061	Alfred Mills	Ojato			0	0	0	0	0	0	0	0
387	Mon062	Tract 12	Ojato			0	0	0	0	0	0	0	0
388	Mon064	Horsetrail	Ojato			0	0	0	0	0	0	0	0
390	Mon060		Ojato			0	0	0	0	0	0	0	0
395	Mon0076a		Ojato			0	0	0	0	0	0	0	0
397	Mon063	Tract 15	Ojato	Shonto		0	0	0	0	0	0	0	0
293	NA-0238		Red Mesa			0	0	0	0	0	0	0	0
13	NA-0819a	Salt Canyon Mines	Red Valley			0	0	0	0	0	0	0	0
25	NA-0400	Syracuse Mine	Red Valley			0	0	0	0	0	0	0	0
33	NA-0342	Tohe Tlany Begay Mine	Red Valley			0	0	0	0	0	0	0	0
430	Cov177	Cove Mesa Mines (AEC Lease Plot 7)	Red Valley			0	0	0	0	0	0	0	0
431	Cov175	Cove Mesa Mines (AEC Lease Plot 7)	Red Valley			0	0	0	0	0	0	0	0
433	San018		Red Valley			0	0	0	0	0	0	0	0
439	Cov192		Red Valley			0	0	0	0	0	0	0	0
489	NA-0425	Toni Tuc No. 1 Mine	Red Valley	Beclabito		0	0	0	0	0	0	0	0
490	Bec002	Toni Tuc No. 1 Mine	Red Valley	Beclabito		0	0	0	0	0	0	0	0
493	NA-0339	East Mesa Mines	Red Valley			0	0	0	0	0	0	0	0
494	Cov110	East Mesa Mines	Red Valley			0	0	0	0	0	0	0	0

TABLE 1. Air and Soil Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Structures on Mine Count	200 Foot Structures Count	1/4 Mile Structures Count	1 Mile Structures Count	Total Structures	200 Foot Score	1/4 Mile Score	1 Mile Score	Total Air/Soil Score
501	Cov176	Cove Mesa Mines (AEC Lease Plot 7)	Red Valley			0	0	0	0	0	0	0	0
40	NA-0338	West Mesa Mine	Round Rock	Red Valley		0	0	0	0	0	0	0	0
197	NA-0337	Mexican Cry Mine	Round Rock			0	0	0	0	0	0	0	0
198	NA-0337	Mexican Cry Mine	Round Rock			0	0	0	0	0	0	0	0
199	NA-0335		Round Rock			0	0	0	0	0	0	0	0
200	NA-0334	Jimmie King No. 9 Mine	Round Rock			0	0	0	0	0	0	0	0
201	NA-0333		Round Rock			0	0	0	0	0	0	0	0
202	NA-0332		Round Rock			0	0	0	0	0	0	0	0
203	NA-0331		Round Rock			0	0	0	0	0	0	0	0
204	NA-0330		Round Rock			0	0	0	0	0	0	0	0
205	NA-0327		Round Rock			0	0	0	0	0	0	0	0
206	NA-0328		Round Rock			0	0	0	0	0	0	0	0
207	NA-0343		Round Rock			0	0	0	0	0	0	0	0
208	NA-0325	Camp Mine	Round Rock			0	0	0	0	0	0	0	0
427	Cov198		Round Rock			0	0	0	0	0	0	0	0
428	Cov216	Knife Edge Mesa Mine	Round Rock			0	0	0	0	0	0	0	0
429	Cov226	Cisco Mine	Round Rock			0	0	0	0	0	0	0	0
467	NA-0326	Joleo Mine	Round Rock			0	0	0	0	0	0	0	0
468	NA-0336	Half Mine	Round Rock			0	0	0	0	0	0	0	0
511	NA-0329		Round Rock			0	0	0	0	0	0	0	0
512	NA-0329		Round Rock			0	0	0	0	0	0	0	0
45	NA-0601		Sanostee			0	0	0	0	0	0	0	0
192	NA-0603		Sanostee			0	0	0	0	0	0	0	0
193	NA-0612		Sanostee			0	0	0	0	0	0	0	0
194	NA-0613		Sanostee			0	0	0	0	0	0	0	0
195	NA-0608		Sanostee			0	0	0	0	0	0	0	0
408	San017		Sanostee			0	0	0	0	0	0	0	0
409	San010		Sanostee			0	0	0	0	0	0	0	0
410	San008		Sanostee			0	0	0	0	0	0	0	0
411	San002		Sanostee			0	0	0	0	0	0	0	0
412	San007	Enos Johnson Mine	Sanostee			0	0	0	0	0	0	0	0
413	San006		Sanostee			0	0	0	0	0	0	0	0
414	San003		Sanostee			0	0	0	0	0	0	0	0
465	NA-0611		Sanostee			0	0	0	0	0	0	0	0
466	NA-0604		Sanostee			0	0	0	0	0	0	0	0
36	NA-0308	Cove Mesa Mines (Cato Selfs)	Sweetwater			0	0	0	0	0	0	0	0
37	NA-0308	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater			0	0	0	0	0	0	0	0
38	NA-0308	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater			0	0	0	0	0	0	0	0
39	NA-0306	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater			0	0	0	0	0	0	0	0
213	NA-0514	Mildred Mine	Sweetwater			0	0	0	0	0	0	0	0
273	NA-0510		Sweetwater			0	0	0	0	0	0	0	0

TABLE 1. Air and Soil Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Structures on Mine Count	200 Foot Structures Count	1/4 Mile Structures Count	1 Mile Structures Count	Total Structures	200 Foot Score	1/4 Mile Score	1 Mile Score	Total Air/Soil Score
434	Cov178	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater	Red Valley		0	0	0	0	0	0	0	0
495	NA-0309	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater			0	0	0	0	0	0	0	0
496	NA-0307	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater			0	0	0	0	0	0	0	0
497	NA-0304	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater			0	0	0	0	0	0	0	0
498	NA-0305	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater			0	0	0	0	0	0	0	0
499	NA-0340	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater			0	0	0	0	0	0	0	0
500	Cov122	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater			0	0	0	0	0	0	0	0
502	Cov121	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater			0	0	0	0	0	0	0	0
503	Cov125	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater			0	0	0	0	0	0	0	0
504	NA-0303	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater	Red Valley		0	0	0	0	0	0	0	0
82	NA-0704		Tselanii/ Cottonwood	Tachee/Blue Gap		0	0	0	0	0	0	0	0
83	NA-0707		Tselanii/ Cottonwood			0	0	0	0	0	0	0	0
403	Blk020		Tselanii/ Cottonwood			0	0	0	0	0	0	0	0
405	Blk019b		Tselanii/ Cottonwood			0	0	0	0	0	0	0	0

DISCLAIMER: The method used to prioritize the AUM sites is based on a limited subset of the locational-distance criteria in the HRS. It does not include many of the other criteria and factors built into the HRS model. Therefore, the scores derived under this model cannot be considered to be reflective of an HRS score, but are meant only to begin the process of prioritization based on distance from the AUM source.

TABLE 2. Surface Water Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

M	Source_ID	Mine_Name	Chapter1	Chapter2	Mine Within One Mile Overland	Surface Water Score
112	NA-0229	Montezuma Creek Mine	Aneth		Yes	160
294	W027031	PETE 6 & 7	Aneth	Off Navajo Nation	Yes	160
336	NMMK0002	Alta	Baca/Prewitt		Yes	160
	NMMK0014					
	NMMK0073					
329	NMMK0200	Billy the Kid	Baca/Prewitt		Yes	160
348	NMMK0041	Dakota	Baca/Prewitt		Yes	160
327	NMMK0055	Elkins	Baca/Prewitt		Yes	160
326	NMMK0057	Elkins	Baca/Prewitt		Yes	160
334	NMMK0058	Evelyn	Baca/Prewitt		Yes	160
	NMMK0064					
450	NMMK0259	Febco	Baca/Prewitt		Yes	160
335	NMMK0071	Frances	Baca/Prewitt		Yes	160
331	NMMK0076	Haven	Baca/Prewitt		Yes	160
345	NMMK0077	Haystack	Baca/Prewitt		Yes	160
341	NMMK0079	Haystack	Baca/Prewitt		Yes	160
342	NMMK0080	Haystack	Baca/Prewitt		Yes	160
344	NMMK0081	Haystack	Baca/Prewitt		Yes	160
476	NMMK0085	Hutton-James	Baca/Prewitt		Yes	160
351	NMMK0090	Junior	Baca/Prewitt		Yes	160
338	NMMK0096	Lost Mine	Baca/Prewitt		Yes	160
339	NMMK0096	Lost Mine	Baca/Prewitt		Yes	160
349	NMMK0123	Pat	Baca/Prewitt		Yes	160
350	NMMK0123	Pat	Baca/Prewitt		Yes	160
332	NMMK0136	Red Cap	Baca/Prewitt		Yes	160
347	NMMK0138	Red Point	Baca/Prewitt		Yes	160
328	NMMK0140	Red Top	Baca/Prewitt		Yes	160
330	NMMK0141	Red Top	Baca/Prewitt		Yes	160
474	NMMK0152	Section 1	Baca/Prewitt		Yes	160
473	NMMK0159	Section 2	Baca/Prewitt		Yes	160
352	NMMK0164	Section 4	Baca/Prewitt		Yes	160
346	NMMK0168	Section 5	Baca/Prewitt		Yes	160
343	NMMK0195	Section 18	Baca/Prewitt		Yes	160
356	NMMK0206	Section 22	Baca/Prewitt	Off Navajo Nation	Yes	160
	NMMK0221					
	NMMK0207					
364	NMMK0338	Section 26	Baca/Prewitt	Off Navajo Nation	Yes	160
337	NMMK0249	Section 34	Baca/Prewitt		Yes	160
324	NMMK0255	Silver Bit	Baca/Prewitt		Yes	160
325	NMMK0257	Silver Bit	Baca/Prewitt		Yes	160
340	NMMK0258	Silver Spur	Baca/Prewitt		Yes	160
475	NMMK0277	Unknown	Baca/Prewitt		Yes	160
333	NMMK0345	Yucca	Baca/Prewitt		Yes	160
442	Bec054		Beclabito		Yes	160
443	Bec060		Beclabito		Yes	160
444	Bec064		Beclabito		Yes	160
445	Bec068		Beclabito		Yes	160
447	Bec070		Beclabito		Yes	160

TABLE 2. Surface Water Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

M	Source_ID	Mine_Name	Chapter1	Chapter2	Mine Within One Mile Overland	Surface Water Score
446	Bec090		Beclabito		Yes	160
49	NA-0401	Copper Mine	Beclabito		Yes	160
46	NA-0403		Beclabito		Yes	160
47	NA-0404		Beclabito		Yes	160
48	NA-0404		Beclabito		Yes	160
29	NA-0412	Upper Red Canyon Mine	Beclabito		Yes	160
265	NA-0413		Beclabito		Yes	160
266	NA-0413		Beclabito		Yes	160
269	NA-0414		Beclabito		Yes	160
268	NA-0415		Beclabito		Yes	160
267	NA-0416		Beclabito		Yes	160
271	NA-0417		Beclabito		Yes	160
270	NA-0418		Beclabito		Yes	160
272	NA-0418		Beclabito		Yes	160
281	NA-0419		Beclabito		Yes	160
276	NA-0420		Beclabito		Yes	160
280	NA-0421		Beclabito		Yes	160
279	NA-0422		Beclabito		Yes	160
278	NA-0423		Beclabito	Teeec Nos Pos	Yes	160
277	NA-0424		Beclabito		Yes	160
406	Blk029		Black Mesa		Yes	160
78	NA-0701		Black Mesa		Yes	160
79	NA-0701		Black Mesa		Yes	160
85	NA-0703		Black Mesa		Yes	160
87	NA0709A		Black Mesa		Yes	160
86	NA0709B		Black Mesa		Yes	160
88	NA0709C		Black Mesa		Yes	160
452	7	A & B No. 13	Bodaway/Gap		Yes	160
451	8	A & B No. 7	Bodaway/Gap		Yes	160
91	NA-0101	Jimmie Boone B	Bodaway/Gap		Yes	160
183	NA-0102	Paul Huskie No.21	Bodaway/Gap		Yes	160
177	NA-0103A	Earl Huskon No. 3	Bodaway/Gap		Yes	160
178	NA-0103B	Earl Huskon No. 1	Bodaway/Gap		Yes	160
118	NA-0105a	Henry Sloan No. 1	Bodaway/Gap		Yes	160
117	NA-0105b	Henry Sloan No. 1	Bodaway/Gap		Yes	160
171	NA-0112		Bodaway/Gap		Yes	160
172	NA-0113		Bodaway/Gap		Yes	160
165	NA-0114AAA		Bodaway/Gap		Yes	160
163	NA-0114AAB		Bodaway/Gap		Yes	160
164	NA-0114AAC		Bodaway/Gap		Yes	160
162	NA-0114DAA		Bodaway/Gap		Yes	160
161	NA-0114DAB		Bodaway/Gap		Yes	160
166	NA-0116		Bodaway/Gap		Yes	160
290	NA-0259		Bodaway/Gap		Yes	160
453	67a	Section 1 Lease	Cameron	Off Navajo Nation	Yes	160
382	Cam043		Cameron		Yes	160
383	Cam052		Cameron		Yes	160
385	Cam056		Cameron		Yes	160

TABLE 2. Surface Water Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

M	Source_ID	Mine_Name	Chapter1	Chapter2	Mine Within One Mile Overland	Surface Water Score
456	Cam068b		Cameron		Yes	160
228	NA-0106	A & B No. 3	Cameron		Yes	160
176	NA-0107	Montezuma No. 1	Cameron		Yes	160
175	NA-0108	A & B No. 2	Cameron		Yes	160
140	NA-0149A	Charles Huskon No. 3	Cameron		Yes	160
139	NA-0149b	Charles Huskon No. 3	Cameron		Yes	160
138	NA-0149c	Charles Huskon No. 3	Cameron		Yes	160
137	NA-0149d	Charles Huskon No. 3	Cameron		Yes	160
143	NA-0153	Yazzie No. 102	Cameron		Yes	160
142	NA-0154	Yazzie No. 102	Cameron		Yes	160
141	NA-0155A	Charles Huskon No. 10	Cameron		Yes	160
232	NA-0155B	Charles Huskon No. 10	Cameron		Yes	160
168	NA-0158A	Charles Huskon No. 8	Cameron		Yes	160
167	NA-0158B	Charles Huskon No. 8	Cameron		Yes	160
169	NA-0159	Boyd Tisi No. 1	Cameron		Yes	160
170	NA-0164	Taylor Reid No. 2	Cameron		Yes	160
144	NA-0166	Charles Huskon No. 11	Cameron	Off Navajo Nation	Yes	160
302	NMMK0247	Section 32, 33	Casamero Lake	Baca/Prewitt	Yes	160
400	Blk001		Chilchinbeto		Yes	160
401	Blk001a		Chilchinbeto		Yes	160
402	Blk002		Chilchinbeto		Yes	160
75	NA-0705		Chilchinbeto		Yes	160
76	NA-0710		Chilchinbeto		Yes	160
73	NA-0711		Chilchinbeto		Yes	160
74	NA-0712		Chilchinbeto		Yes	160
296	Occurrence B	Occurrence B	Chinle		Yes	160
300	Zhealy Tso, N. Part Parcel 1	Zhealy Tso	Chinle		Yes	160
297	Zhealy Tso, S. Part Parcel 1	Zhealy Tso	Chinle		Yes	160
298	Zhealy Tso, W. Part Parcel 1	Zhealy Tso	Chinle		Yes	160
299	Zhealy Tso, W. Part Parcel 1	Zhealy Tso	Chinle		Yes	160
209	NA-0550	Foutz 3	Church Rock	Iyanbito	Yes	160
110	NA-0551	Foutz No. 2	Church Rock		Yes	160
310	NMMK0028	CD and S	Church Rock		Yes	160
	NMMK0034 NMMK0318					
307	NMMK0319	Church Rock	Church Rock		Yes	160
314	NMMK0047	Diamond No. 2	Church Rock		Yes	160
312	NMMK0083	Hogback	Church Rock		Yes	160
308	NMMK0124	Section 13	Church Rock		Yes	160
309	NMMK0209	Section 23	Church Rock		Yes	160
313	NMMK0230	Section 28	Church Rock		Yes	160
374	Cam012		Coalmine Canyon		Yes	160
373	Cam018		Coalmine Canyon		Yes	160
375	Cam033		Coalmine Canyon		Yes	160
376	Cam042		Coalmine Canyon		Yes	160
377	Cam057		Coalmine Canyon		Yes	160
378	Cam062		Coalmine Canyon		Yes	160
92	NA-0104	Charles Huskon No. 6	Coalmine Canyon		Yes	160

TABLE 2. Surface Water Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

M	Source_ID	Mine_Name	Chapter1	Chapter2	Mine Within One Mile Overland	Surface Water Score
174	NA-0109	Jackpot No. 40	Coalmine Canyon		Yes	160
233	NA-0110A	Max Johnson No. 7	Coalmine Canyon		Yes	160
234	NA-0110B	Amos Chee No. 8	Coalmine Canyon		Yes	160
236	NA-0111		Coalmine Canyon		Yes	160
121	NA-0113	Jeepster No. 1	Coalmine Canyon		Yes	160
231	NA-0121	Evans Huskon No. 34	Coalmine Canyon		Yes	160
120	NA-0123	Charles Huskon No. 19	Coalmine Canyon		Yes	160
160	NA-0124a	Jack Daniels No. 1-5	Coalmine Canyon		Yes	160
230	NA-0124B	Kachina No. 6	Coalmine Canyon		Yes	160
229	NA-0124C	Jack Daniels No. 1-5	Coalmine Canyon		Yes	160
119	NA-0125	Charles Huskon No. 12	Coalmine Canyon		Yes	160
125	NA-0127		Coalmine Canyon		Yes	160
126	NA-0128A	Lemuel Littleman No. 2	Coalmine Canyon		Yes	160
127	NA-0128B	Lemuel Littleman No. 2	Coalmine Canyon		Yes	160
124	NA-0129	Charles Huskon No. 1	Coalmine Canyon		Yes	160
128	NA-0130	Max Johnson No. 10	Coalmine Canyon		Yes	160
130	NA-0131a	Elwood Canyon No. 1	Coalmine Canyon		Yes	160
129	NA-0131b	Max Johnson No. 9	Coalmine Canyon		Yes	160
131	NA-0134	Alice Tolino No. 1 & 3	Coalmine Canyon		Yes	160
133	NA-0135	Evans Huskon No. 2	Coalmine Canyon		Yes	160
132	NA-0136	Yazzie No. 101	Coalmine Canyon		Yes	160
134	NA-0137	Yazzie No. 312	Coalmine Canyon		Yes	160
135	NA-0138	Boyd Tisi No. 2	Coalmine Canyon		Yes	160
136	NA-0139	Juan Horse No. 3	Coalmine Canyon		Yes	160
123	NA-0141	Juan Horse No. 4	Coalmine Canyon		Yes	160
122	NA-0148	Jack Huskon No. 3	Coalmine Canyon	Cameron	Yes	160
145	NA-0163	Ryan No. 1	Coalmine Canyon		Yes	160
90	NA-0172a	RAMCO No. 21	Coalmine Canyon		Yes	160
150	NA-0172B	RAMCO No. 21	Coalmine Canyon		Yes	160
151	NA-0173	RAMCO No. 22	Coalmine Canyon		Yes	160
153	NA-0174	RAMCO No. 20	Coalmine Canyon		Yes	160
152	NA-0175	Ryan No. 2	Coalmine Canyon		Yes	160
149	NA-0179	Yazzie No. 1	Coalmine Canyon		Yes	160
148	NA-0180	Yazzie No. 2	Coalmine Canyon		Yes	160
173	NA-0184	Charles Huskon No. 17	Coalmine Canyon		Yes	160
147	NA-0186	Jackpot No. 1	Coalmine Canyon		Yes	160
146	NA-0187	Jackpot No. 5	Coalmine Canyon		Yes	160
159	NA-0194	Julius Chee No. 3	Coalmine Canyon		Yes	160
158	NA-0195	Julius Chee No. 2	Coalmine Canyon		Yes	160
155	NA-0196A	RAMCO No. 24	Coalmine Canyon		Yes	160
156	NA-0196B	RAMCO No. 24	Coalmine Canyon		Yes	160
157	NA-0197	Charles Huskon No. 4 & Paul Huskie No. 3	Coalmine Canyon		Yes	160
235	NA-0197B	Charles Huskon No. 18	Coalmine Canyon		Yes	160
154	NA-0198	Emmet Lee No. 3	Coalmine Canyon		Yes	160
425	Cov000		Cove		Yes	160
423	Cov026		Cove		Yes	160
419	Cov027		Cove		Yes	160
422	Cov030		Cove		Yes	160

TABLE 2. Surface Water Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

M	Source_ID	Mine_Name	Chapter1	Chapter2	Mine Within One Mile Overland	Surface Water Score
418	Cov033		Cove		Yes	160
424	Cov052		Cove		Yes	160
417	Cov053		Cove		Yes	160
416	Cov054		Cove		Yes	160
420	Cov068		Cove		Yes	160
506	Cov086		Cove		Yes	160
507	Cov087		Cove		Yes	160
426	Cov098		Cove		Yes	160
421	Cov099	Frank Jr. Mine	Cove		Yes	160
415	Cov230		Cove		Yes	160
472	Cove Transfer Station	Cove Transfer Station	Cove		Yes	160
	NA-0300					
	NA-0310B					
	NA-0310C					
93	NA-0310D		Cove		Yes	160
510	NA-0301	Frank No. 1 Mines	Cove		Yes	160
103	NA-0302	Mesa V Mine	Cove		Yes	160
94	NA-0310A		Cove		Yes	160
95	NA-0311		Cove		Yes	160
96	NA-0312		Cove		Yes	160
97	NA-0312		Cove		Yes	160
98	NA-0313		Cove		Yes	160
101	NA-0314		Cove		Yes	160
100	NA-0315		Cove		Yes	160
106	NA-0316	Frank No. 1 Mines	Cove		Yes	160
107	NA-0316		Cove		Yes	160
505	NA-0317		Cove		Yes	160
508	NA-0317		Cove		Yes	160
509	NA-0317		Cove		Yes	160
99	NA-0318		Cove		Yes	160
102	NA-0318		Cove		Yes	160
105	NA-0319		Cove		Yes	160
469	NA-0319		Cove		Yes	160
104	NA-0320		Cove		Yes	160
286	NA-0321		Cove		Yes	160
288	NA-0322		Cove		Yes	160
285	NA-0323		Cove		Yes	160
287	NA-0324		Cove		Yes	160
305	NMMK0112	Church Rock No. 1	Coyote Canyon		Yes	160
306	NMMK0114	Church Rock No. 2	Coyote Canyon		Yes	160
316	NMMK0040	Crownpoint	Crownpoint		Yes	160
237	NA-0213		Dennehotso		Yes	160
291	NA-0751		Indian Wells		Yes	160
111	NA-0552	Section 3	Iyanbito		Yes	160
311	NMMK0341	Westwater	Iyanbito		Yes	160
398	Mon0076c		Kayenta		Yes	160
399	Mon019	Sally Mine	Kayenta		Yes	160
521	NA-0204	Willie Water Claim	Kayenta		Yes	160

TABLE 2. Surface Water Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

M	Source_ID	Mine_Name	Chapter1	Chapter2	Mine Within One Mile Overland	Surface Water Score
241	NA-0224		Kayenta		Yes	160
242	NA-0225	John Yazzie #1 Mine	Kayenta		Yes	160
238	NA-0226	Harvey Blackwater Claim (South)	Kayenta		Yes	160
239	NA-0226	Harvey Blackwater Claim (North)	Kayenta		Yes	160
240	NA-0226		Kayenta		Yes	160
243	NA-0235		Kayenta		Yes	160
244	NA-0235		Kayenta		Yes	160
318	NMMK0097	Mac No. 1	Mariano Lake		Yes	160
301	NMMK0102	Mariano Lake	Mariano Lake		Yes	160
317	NMMK0102	Mariano Lake	Mariano Lake		Yes	160
315	NMMK0038	Crownpoint	Nahodishgish		Yes	160
	NMMK0113					
303	NMMK0116	Church Rock No. 1-East	Nahodishgish		Yes	160
463	88	Black Point-Murphy Group	Off Navajo Nation		Yes	160
454	67b	Section 1 Lease	Off Navajo Nation		Yes	160
457	71a	Section 9 Lease	Off Navajo Nation		Yes	160
458	71b	Section 9 Lease	Off Navajo Nation		Yes	160
459	71c	Section 9 Lease	Off Navajo Nation		Yes	160
361	NMMK0018	Blue Peak	Off Navajo Nation		Yes	160
360	NMMK0019	Bobcat	Off Navajo Nation		Yes	160
358	NMMK0051	Dysart No. 1	Off Navajo Nation		Yes	160
359	NMMK0175	Section 10	Off Navajo Nation		Yes	160
357	NMMK0183	Section 15	Off Navajo Nation		Yes	160
355	NMMK0208	Section 23	Off Navajo Nation		Yes	160
354	NMMK0214	Section 24	Off Navajo Nation		Yes	160
362	NMMK0216	Section 25	Off Navajo Nation		Yes	160
365	NMMK0218	Section 25 SEQ	Off Navajo Nation		Yes	160
366	NMMK0218	Section 25 SEQ	Off Navajo Nation		Yes	160
367	NMMK0218	Section 25 SEQ	Off Navajo Nation		Yes	160
368	NMMK0218	Section 25 SEQ	Off Navajo Nation		Yes	160
369	NMMK0218	Section 25 SEQ	Off Navajo Nation		Yes	160
	NMMK0219					
363	NMMK0215	Section 25 Open Pit	Off Navajo Nation		Yes	160
353	NMMK0220	Section 25	Off Navajo Nation		Yes	160
370	NMMK0235	Section 30	Off Navajo Nation		Yes	160
371	NMMK0235	Section 30	Off Navajo Nation		Yes	160
372	NMMK0235	Section 30	Off Navajo Nation		Yes	160
464			Off Navajo Nation		Yes	160
394	Mon006	Joe Rock Mine	Ojato		Yes	160
520	Mon007	Big Four Mine	Ojato		Yes	160
395	Mon0076a		Ojato		Yes	160
514	Mon011	Naschoy Mine	Ojato		Yes	160
393	Mon013	Daylight Mine	Ojato		Yes	160
391	Mon029	Tract 24 Mine - A	Ojato		Yes	160
392	Mon030	Tract 24 Mine - B	Ojato		Yes	160
390	Mon060		Ojato		Yes	160
386	Mon061	Alfred Mills	Ojato		Yes	160
387	Mon062	Tract 12	Ojato		Yes	160

TABLE 2. Surface Water Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

M	Source_ID	Mine_Name	Chapter1	Chapter2	Mine Within One Mile Overland	Surface Water Score
397	Mon063	Tract 15	Ojato	Shonto	Yes	160
388	Mon064	Horsetrail	Ojato		Yes	160
389	Mon069		Ojato		Yes	160
518	Mon077		Ojato		Yes	160
253	NA-0200	Moonlight Mine	Ojato		Yes	160
252	NA-0201	Boot Jack Mine	Ojato		Yes	160
257	NA-0202		Ojato		Yes	160
263	NA-0203	Tract 11	Ojato		Yes	160
262	NA-0205	Tract 11E	Ojato		Yes	160
251	NA-0206	Big Chief Mine	Ojato		Yes	160
258	NA-0208		Ojato		Yes	160
259	NA-0208		Ojato		Yes	160
249	NA-0209	Black Rock Mine	Ojato		Yes	160
250	NA-0209	Black Rock Mine	Ojato		Yes	160
245	NA-0210	Monument #1 Annex Mine	Ojato		Yes	160
246	NA-0210	Monument #1 - A	Ojato		Yes	160
247	NA-0210	Mitten #2 - A	Ojato		Yes	160
260	NA-0211	Mitten 31 Mine	Ojato		Yes	160
261	NA-0211	Taylor Reid Mine - B	Ojato		Yes	160
515	NA-0211	Taylor Reid Mine - A	Ojato		Yes	160
516	NA-0211	C-3 Mine	Ojato		Yes	160
254	NA-0212	Skyline Mine - East	Ojato		Yes	160
255	NA-0212	Mitten #1 'A'	Ojato		Yes	160
256	NA-0212	Mitten #1 'B'	Ojato		Yes	160
225	NA-0214	Keith Mine - A	Ojato		Yes	160
224	NA-0215	Norcross Mine - A	Ojato		Yes	160
182	NA-0216	Tom Holiday Mine	Ojato		Yes	160
181	NA-0217	Harvey Black Mine	Ojato		Yes	160
226	NA-0218	Monument #3 Mine	Ojato		Yes	160
519	NA-0219	Big Four Mine	Ojato		Yes	160
179	NA-0220	Sunlight Mine	Ojato		Yes	160
	NA-0221					
180	NA-0207	Starlight Mine	Ojato		Yes	160
513	NA-0222		Ojato		Yes	160
221	NA-0223		Ojato		Yes	160
222	NA-0223		Ojato		Yes	160
264	NA-0228	Tract 14	Ojato		Yes	160
248	NA-0233	Alma-Seggin Mine	Ojato		Yes	160
517	NA-0234		Ojato		Yes	160
227	NA-0236	Tract 7	Ojato		Yes	160
223	NA-0237	Rock Door Mine	Ojato		Yes	160
196	UTAML	Whirlwind Mine	Ojato		Yes	160
	NMMK0117					
304	NMMK0315	NE Church Rock	Pinedale		Yes	160
293	NA-0238		Red Mesa		Yes	160
191	NA-0507	Toh Atin Mesa Mine	Red Mesa		Yes	160
190	NA-0508A		Red Mesa		Yes	160
220	NA-0508B		Red Mesa		Yes	160

TABLE 2. Surface Water Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

M	Source_ID	Mine_Name	Chapter1	Chapter2	Mine Within One Mile Overland	Surface Water Score
189	NA-0509A		Red Mesa		Yes	160
449	Swt047		Red Mesa		Yes	160
448	Swt048		Red Mesa		Yes	160
490	Bec002	Toni Tuc No. 1 Mine	Red Valley	Bedabito	Yes	160
494	Cov110	East Mesa Mines	Red Valley		Yes	160
431	Cov175	Cove Mesa Mines (AEC Lease Plot 7)	Red Valley		Yes	160
501	Cov176	Cove Mesa Mines (AEC Lease Plot 7)	Red Valley		Yes	160
430	Cov177	Cove Mesa Mines (AEC Lease Plot 7)	Red Valley		Yes	160
439	Cov192		Red Valley		Yes	160
34	NA-0308	Cove Mesa Mines (Cato Sells)	Red Valley		Yes	160
493	NA-0339	East Mesa Mines	Red Valley		Yes	160
35	NA-0341	Cove Mesa Mines (Cato Sells)	Red Valley		Yes	160
33	NA-0342	Tohe Thlany Begay Mine	Red Valley		Yes	160
25	NA-0400	Syracuse Mine	Red Valley		Yes	160
21	NA-0405		Red Valley		Yes	160
22	NA-0406	Leroy Mine	Red Valley		Yes	160
23	NA-0407	Lower Canyon Mine	Red Valley		Yes	160
24	NA-0408		Red Valley		Yes	160
26	NA-0409	Hazel Mine	Red Valley		Yes	160
27	NA-0410	Lone Star Mine	Red Valley		Yes	160
28	NA-0411	Cottonwood Butte Mine	Red Valley		Yes	160
489	NA-0425	Toni Tuc No. 1 Mine	Red Valley	Bedabito	Yes	160
20	NA-0800	Oak Springs Mine (Gravel Cap)	Red Valley		Yes	160
18	NA-0801		Red Valley		Yes	160
15	NA-0802	Franks Point Mine	Red Valley		Yes	160
9	NA-0803	Lookout Point Mines	Red Valley		Yes	160
6	NA-0804	Lookout Point Incline Mine	Red Valley		Yes	160
477	NA-0805	Shadyside Incline	Red Valley		Yes	160
481	NA-0806		Red Valley		Yes	160
488	NA-0807	Begay No. 1 and Carrizo No. 1 Mines	Red Valley		Yes	160
19	NA-0808		Red Valley		Yes	160
484	NA-0809		Red Valley		Yes	160
10	NA-0810	Begay No. 2 Mine	Red Valley		Yes	160
487	NA-0811	King Tutt Point Mines	Red Valley		Yes	160
485	NA-0812	Begay No. 1 and Carrizo No. 1 Mines	Red Valley		Yes	160
11	NA-0813		Red Valley		Yes	160
8	NA-0814		Red Valley		Yes	160
483	NA-0815		Red Valley		Yes	160
3	NA-0816		Red Valley		Yes	160
2	NA-0817		Red Valley		Yes	160
30	NA-0817	Red Wash Mine (Hosteen S. Begay)	Red Valley		Yes	160
17	NA-0818		Red Valley		Yes	160
41	NA-0818		Red Valley		Yes	160
13	NA-0819a	Salt Canyon Mines	Red Valley		Yes	160
14	NA-0819b	Salt Canyon Mines	Red Valley		Yes	160
7	NA-0820	Stripped Area 1 of VCA Plot 3	Red Valley		Yes	160
480	NA-0821	Stripped Area 3 of VCA Plot 3	Red Valley		Yes	160
479	NA-0822		Red Valley		Yes	160

TABLE 2. Surface Water Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

M	Source_ID	Mine_Name	Chapter1	Chapter2	Mine Within One Mile Overland	Surface Water Score
16	NA-0823	Upper Salt Rock Canyon Mine	Red Valley		Yes	160
289	NA-0823	Lower Salt Rock Canyon Mine	Red Valley		Yes	160
5	NA-0824		Red Valley		Yes	160
31	NA-0825	Upper Red Wash Mine	Red Valley		Yes	160
32	NA-0825	Upper Red Wash Mine	Red Valley		Yes	160
4	NA-0826		Red Valley		Yes	160
12	NA-0827	Williams Point Mine	Red Valley		Yes	160
1	NA-0828	Red Wash Mine (Leroy Pettigrew)	Red Valley		Yes	160
42	NA-0828	Red Rock Mine	Red Valley		Yes	160
43	NA-0828		Red Valley		Yes	160
486	Oak125		Red Valley		Yes	160
482	Oak143		Red Valley		Yes	160
478	Oak156		Red Valley		Yes	160
432	Oak221	Rocky Spring Mine	Red Valley		Yes	160
441	Oak230		Red Valley		Yes	160
440	Oak238		Red Valley		Yes	160
433	San018		Red Valley		Yes	160
77	NA-0700		Rough Rock		Yes	160
427	Cov198		Round Rock		Yes	160
428	Cov216	Knife Edge Mesa Mine	Round Rock		Yes	160
429	Cov226	Cisco Mine	Round Rock		Yes	160
208	NA-0325	Camp Mine	Round Rock		Yes	160
467	NA-0326	Joleo Mine	Round Rock		Yes	160
205	NA-0327		Round Rock		Yes	160
206	NA-0328		Round Rock		Yes	160
511	NA-0329		Round Rock		Yes	160
512	NA-0329		Round Rock		Yes	160
204	NA-0330		Round Rock		Yes	160
203	NA-0331		Round Rock		Yes	160
202	NA-0332		Round Rock		Yes	160
201	NA-0333		Round Rock		Yes	160
200	NA-0334	Jimmie King No. 9 Mine	Round Rock		Yes	160
199	NA-0335		Round Rock		Yes	160
468	NA-0336	Hall Mine	Round Rock		Yes	160
197	NA-0337	Mexican Cry Mine	Round Rock		Yes	160
198	NA-0337	Mexican Cry Mine	Round Rock		Yes	160
40	NA-0338	West Mesa Mine	Round Rock	Red Valley	Yes	160
207	NA-0343		Round Rock		Yes	160
45	NA-0601		Sanostee		Yes	160
192	NA-0603		Sanostee		Yes	160
466	NA-0604		Sanostee		Yes	160
195	NA-0608		Sanostee		Yes	160
44	NA-0610		Sanostee		Yes	160
465	NA-0611		Sanostee		Yes	160
193	NA-0612		Sanostee		Yes	160
194	NA-0613		Sanostee		Yes	160
407	San001		Sanostee		Yes	160
411	San002		Sanostee		Yes	160

TABLE 2. Surface Water Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

M	Source_ID	Mine_Name	Chapter1	Chapter2	Mine Within One Mile Overland	Surface Water Score
414	San003		Sanostee		Yes	160
413	San006		Sanostee		Yes	160
412	San007	Enos Johnson Mine	Sanostee		Yes	160
410	San008		Sanostee		Yes	160
409	San010		Sanostee		Yes	160
408	San017		Sanostee		Yes	160
322	NMMK0015	Black Jack No. 1	Smith Lake		Yes	160
319	NMMK0016	Black Jack No. 2	Smith Lake		Yes	160
320	NMMK0098	Mac No. 2	Smith Lake		Yes	160
	NMMK0145					
	NMMK0146					
321	NMMK0148	Ruby No. 1	Smith Lake		Yes	160
	NMMK0147					
323	NMMK0260	Ruby No. 3	Smith Lake		Yes	160
502	Cov121	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		Yes	160
500	Cov122	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		Yes	160
503	Cov125	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		Yes	160
434	Cov178	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater	Red Valley	Yes	160
504	NA-0303	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater	Red Valley	Yes	160
497	NA-0304	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		Yes	160
498	NA-0305	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		Yes	160
39	NA-0306	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		Yes	160
496	NA-0307	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		Yes	160
36	NA-0308	Cove Mesa Mines (Cato Sells)	Sweetwater		Yes	160
37	NA-0308	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		Yes	160
38	NA-0308	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		Yes	160
495	NA-0309	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		Yes	160
499	NA-0340	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		Yes	160
187	NA-0500		Sweetwater		Yes	160
216	NA-0504		Sweetwater		Yes	160
184	NA-0505A		Sweetwater		Yes	160
185	NA-0505B		Sweetwater		Yes	160
186	NA-0505C		Sweetwater		Yes	160
217	NA-0506		Sweetwater		Yes	160
218	NA-0506		Sweetwater		Yes	160
188	NA-0509B		Sweetwater		Yes	160
273	NA-0510		Sweetwater		Yes	160
274	NA-0511		Sweetwater		Yes	160
275	NA-0511		Sweetwater		Yes	160
210	NA-0512		Sweetwater		Yes	160
211	NA-0513		Sweetwater		Yes	160
213	NA-0514	Mildred Mine	Sweetwater		Yes	160
212	NA-0515		Sweetwater		Yes	160
214	NA-0516		Sweetwater		Yes	160
215	NA-0516		Sweetwater		Yes	160
219	NA-0518		Sweetwater		Yes	160
54	NA-0908		Sweetwater	Teeec Nos Pos	Yes	160
51	NA-0909		Sweetwater	Teeec Nos Pos	Yes	160

TABLE 2. Surface Water Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

M	Source_ID	Mine_Name	Chapter1	Chapter2	Mine Within One Mile Overland	Surface Water Score
52	NA-0910		Sweetwater		Yes	160
55	NA-0912		Sweetwater	Teeec Nos Pos	Yes	160
50	NA-0914	Sah Tah Mine	Sweetwater	Teeec Nos Pos	Yes	160
57	NA-0915		Sweetwater	Teeec Nos Pos	Yes	160
56	NA-0920		Sweetwater		Yes	160
53	NA-0921A		Sweetwater	Teeec Nos Pos	Yes	160
114	NA-0922B		Sweetwater		Yes	160
108	NA-0922C		Sweetwater		Yes	160
109	NA-0922C		Sweetwater		Yes	160
67	NA-0924		Sweetwater	Teeec Nos Pos	Yes	160
58	NA-0926		Sweetwater	Teeec Nos Pos	Yes	160
437	Swt002		Sweetwater		Yes	160
438	Swt003		Sweetwater		Yes	160
436	Swt018		Sweetwater		Yes	160
435	Swt036		Sweetwater		Yes	160
80	NA-0706		Tachee/Blue Gap		Yes	160
295	MP206	MP206	Teeec Nos Pos		Yes	160
282	NA-0402		Teeec Nos Pos		Yes	160
292	NA-0900		Teeec Nos Pos		Yes	160
	NA-0902					
	NA-0917A					
71	NA-0917B		Teeec Nos Pos		Yes	160
	NA-0902					
72	NA-0918		Teeec Nos Pos		Yes	160
59	NA-0904		Teeec Nos Pos	Sweetwater	Yes	160
66	NA-0905		Teeec Nos Pos	Sweetwater	Yes	160
491	NA-0907		Teeec Nos Pos		Yes	160
68	NA-0911		Teeec Nos Pos		Yes	160
60	NA-0916		Teeec Nos Pos	Sweetwater	Yes	160
70	NA-0918		Teeec Nos Pos		Yes	160
116	NA-0919A		Teeec Nos Pos		Yes	160
69	NA-0919B		Teeec Nos Pos		Yes	160
115	NA-0921B		Teeec Nos Pos	Sweetwater	Yes	160
113	NA-0922A		Teeec Nos Pos	Sweetwater	Yes	160
65	NA-0923		Teeec Nos Pos		Yes	160
	NA-0925					
61	NA-0903		Teeec Nos Pos		Yes	160
62	NA-0927		Teeec Nos Pos		Yes	160
63	NA-0928		Teeec Nos Pos	Sweetwater	Yes	160
64	NA-0929		Teeec Nos Pos		Yes	160
283	NA-0930		Teeec Nos Pos		Yes	160
284	NA-0931		Teeec Nos Pos		Yes	160
492	Tse079		Teeec Nos Pos		Yes	160
89	NA-0750		Teesto		Yes	160
405	Bik019b		Tselani/Cottonwood		Yes	160
403	Bik020		Tselani/Cottonwood		Yes	160
404	Bik022		Tselani/Cottonwood		Yes	160
81	NA-0702		Tselani/Cottonwood		Yes	160

TABLE 2. Surface Water Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

M	Source_ID	Mine_Name	Chapter1	Chapter2	Mine Within One Mile Overland	Surface Water Score
82	NA-0704		Tselani/Cottonwood	Tachee/Blue Gap	Yes	160
83	NA-0707		Tselani/Cottonwood		Yes	160
84	NA-0708		Tselani/Cottonwood		Yes	160
384	Cam051		Cameron		No	0
379	Cam042		Coalmine Canyon		No	0
380	Cam060		Coalmine Canyon		No	0
381	Cam061		Coalmine Canyon		No	0
396	Mon065		Ojato		No	0

DISCLAIMER: The method used to prioritize the AUM sites is based on a limited subset of the locational-distance criteria in the HRS. It does not include many of the other criteria and factors built into the HRS model. Therefore, the scores derived under this model cannot be considered to be reflective of an HRS score, but are meant only to begin the process of prioritization based on distance from the AUM source.

TABLE 3. Groundwater Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Wells on Mine Count	1/4 Mile Wells Count	1 Mile Wells Count	4 Mile Wells Count	Total Wells	1/4 Mile Score	1 Mile Score	4 Mile Score	Total Ground Water Score	
50	NA-0914	Sah Tah Mine	Sweetwater	Teeec Nos Pos	1	6	2	11	20	700	100	110	910	
54	NA-0908		Sweetwater	Teeec Nos Pos		4	5	11	20	400	250	110	760	
53	NA-0921A		Sweetwater	Teeec Nos Pos	2	2	4	12	20	400	200	120	720	
108	NA-0922C		Sweetwater			4	4	12	20	400	200	120	720	
115	NA-0921B		Teeec Nos Pos	Sweetwater		4	4	12	20	400	200	120	720	
52	NA-0910		Sweetwater			3	6	11	20	300	300	110	710	
114	NA-0922B		Sweetwater			3	6	11	20	300	300	110	710	
109	NA-0922C		Sweetwater			3	5	12	20	300	250	120	670	
51	NA-0909		Sweetwater	Teeec Nos Pos		2	7	11	20	200	350	110	660	
181	NA-0217	Harvey Black Mine	Ojato				6	35	41	0	300	350	650	
55	NA-0912		Sweetwater	Teeec Nos Pos			10	10	20	0	500	100	600	
316	NMMK0040	Crownpoint	Crownpoint		1	1	4	17	23	200	200	170	570	
56	NA-0920		Sweetwater				9	11	20	0	450	110	560	
113	NA-0922A		Teeec Nos Pos	Sweetwater			9	11	20	0	450	110	560	
228	NA-0106	A & B No. 3	Cameron				8	15	23	0	400	150	550	
57	NA-0915		Sweetwater	Teeec Nos Pos			8	12	20	0	400	120	520	
521	NA-0204	Willie Water Claim	Kayenta				9	6	15	0	450	60	510	
225	NA-0214	Keith Mine - A	Ojato				6	20	26	0	300	200	500	
179	NA-0220	Sunlight Mine	Ojato			1	3	24	28	100	150	240	490	
322	NMMK0015	Black Jack No. 1	Smith Lake			2	0	29	31	200	0	290	490	
253	NA-0200	Moonlight Mine	Ojato				3	33	36	0	150	330	480	
	NMMK0014													
	NMMK0073													
329	NMMK0200	Billy the Kid	Baca/Prewitt			1	6	7	14	100	300	70	470	
306	NMMK0114	Church Rock No. 2	Coyote Canyon		4		0	7	11	400	0	70	470	
520	Mon007	Big Four Mine	Ojato		1	1	2	17	21	200	100	170	470	
519	NA-0219	Big Four Mine	Ojato		1	1	2	17	21	200	100	170	470	
188	NA-0509B		Sweetwater				8	7	15	0	400	70	470	
389	Mon069		Ojato				4	25	29	0	200	250	450	
258	NA-0208		Ojato				2	34	36	0	100	340	440	
245	NA-0210	Monument #1 Annex Mine	Ojato				2	34	36	0	100	340	440	
175	NA-0108	A & B No. 2	Cameron			5	17	22	0	250	170	420		
	NA-0221													
180	NA-0207	Starlight Mine	Ojato			1	1	26	28	100	50	260	410	
		Oak Springs Mine (Gravel Cap)	Red Valley			2	1	16	19	200	50	160	410	
20	NA-0800		Red Valley			2	1	16	19	200	50	160	410	
19	NA-0808		Red Valley			2	1	16	19	200	50	160	410	
479	NA-0822		Red Valley				5	16	21	0	250	160	410	
481	NA-0806		Red Valley				5	15	20	0	250	150	400	
	480	NA-0821	Stripped Area 3 of VCA Plot 3	Red Valley				5	15	20	0	250	150	400
478	Oak156		Red Valley				5	15	20	0	250	150	400	
	NMMK0147													
323	NMMK0260	Ruby No. 3	Smith Lake				2	30	32	0	100	300	400	
112	NA-0229	Montezuma Creek Mine	Aneth				1	34	35	0	50	340	390	
328	NMMK0140	Red Top	Baca/Prewitt			1	4	9	14	100	200	90	390	
60	NA-0916		Teeec Nos Pos	Sweetwater		1	2	19	22	100	100	190	390	

TABLE 3. Groundwater Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Wells on Mine Count	1/4 Mile Wells Count	1 Mile Wells Count	4 Mile Wells Count	Total Wells	1/4 Mile Score	1 Mile Score	4 Mile Score	Total Ground Water Score
315	NMMK0038	Crownpoint	Nahodishgish		2	0	18	20	200	0	180	380	
257	NA-0202		Olijato		1	33	34	0	50	330	380		
259	NA-0208		Olijato		1	33	34	0	50	330	380		
247	NA-0210	Mitten #2 - A	Olijato		0	38	38	0	0	380	380		
393	Mon013	Daylight Mine	Olijato		2	27	29	0	100	270	370		
223	NA-0237	Rock Door Mine	Olijato		2	27	29	0	100	270	370		
483	NA-0815		Red Valley		4	17	21	0	200	170	370		
	NMMK0145												
	NMMK0146												
321	NMMK0148	Ruby No. 1	Smith Lake		2	1	12	15	200	50	120	370	
59	NA-0904		Teeec Nos Pos	Sweetwater	1	2	17	20	100	100	170	370	
224	NA-0215	Norcross Mine - A	Olijato		1	31	32	0	50	310	360		
182	NA-0216	Tom Holiday Mine	Olijato		0	36	36	0	0	360	360		
293	NA-0238		Red Mesa		0	36	36	0	0	360	360		
484	NA-0809		Red Valley		4	16	20	0	200	160	360		
246	NA-0210	Monument #1 - A	Olijato		0	35	35	0	0	350	350		
260	NA-0211	Mitten 31 Mine	Olijato		4	15	19	0	200	150	350		
	NA-0925												
61	NA-0903		Teeec Nos Pos		1	1	20	22	100	50	200	350	
330	NMMK0141	Red Top	Baca/Prewitt		5	9	14	0	250	90	340		
135	NA-0138	Boyd Tisi No. 2	Coalmine Canyon		1	2	14	17	100	100	140	340	
136	NA-0139	Juan Horse No. 3	Coalmine Canyon		1	2	14	17	100	100	140	340	
	Cove Transfer Station	Cove Transfer Station	Cove		2	0	14	16	200	0	140	340	
472	Mon077		Olijato		0	34	34	0	0	340	340		
517	NA-0234		Olijato		0	34	34	0	0	340	340		
261	NA-0211	Taylor Reid Mine - B	Olijato		1	2	13	16	100	100	130	330	
68	NA-0911		Teeec Nos Pos		1	1	18	20	100	50	180	330	
124	NA-0129	Charles Huskon No. 1	Coalmine Canyon		3	17	20	0	150	170	320		
128	NA-0130	Max Johnson No. 10	Coalmine Canyon		3	17	20	0	150	170	320		
6	NA-0804	Lookout Point Indine Mine	Red Valley		3	17	20	0	150	170	320		
8	NA-0814		Red Valley		3	17	20	0	150	170	320		
	NA-0820	Stripped Area 1 of VCA Plot 3	Red Valley		3	17	20	0	150	170	320		
482	Oak143		Red Valley		3	17	20	0	150	170	320		
295	MP206	MP206	Teeec Nos Pos		0	32	32	0	0	320	320		
277	NA-0424		Beclabito		2	1	6	9	200	50	60	310	
256	NA-0212	Mitten #1 'B'	Olijato		0	31	31	0	0	310	310		
58	NA-0926		Sweetwater	Teeec Nos Pos	3	16	19	0	150	160	310		
89	NA-0750		Teesto		4	11	15	0	200	110	310		
	NMMK0034												
	NMMK0318												
307	NMMK0319	Church Rock	Church Rock		1	1	0	10	12	200	0	100	300
160	NA-0124a	Jack Daniels No. 1-5	Coalmine Canyon		1	1	15	17	100	50	150	300	
255	NA-0212	Mitten #1 'A'	Olijato		0	30	30	0	0	300	300		
42	NA-0828	Red Rock Mine	Red Valley		3	15	18	0	150	150	300		
65	NA-0923		Teeec Nos Pos		2	20	22	0	100	200	300		

TABLE 3. Groundwater Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Wells on Mine Count	1/4 Mile Wells Count	1 Mile Wells Count	4 Mile Wells Count	Total Wells	1/4 Mile Score	1 Mile Score	4 Mile Score	Total Ground Water Score
355	NMMK0208	Section 23	Off Navajo Nation			1	2	9	12	100	100	90	290
353	NMMK0220	Section 25	Off Navajo Nation		1	0	19	20	100	0	190	290	290
391	Mon029	Tract 24 Mine - A	Ojato			2	19	21	0	100	190	290	290
251	NA-0206	Big Chief Mine	Ojato			0	29	29	0	0	290	290	290
515	NA-0211	Taylor Reid Mine - A	Ojato			3	14	17	0	150	140	290	290
516	NA-0211	C-3 Mine	Ojato			3	14	17	0	150	140	290	290
254	NA-0212	Skyline Mine - East	Ojato			0	29	29	0	0	290	290	290
67	NA-0924	Sweetwater	Teeec Nos Pos			2	19	21	0	100	190	290	290
66	NA-0905	Teeec Nos Pos	Sweetwater			2	19	21	0	100	190	290	290
327	NMMK0055	Elkins	Baca/Prewitt			4	8	12	0	200	80	280	280
326	NMMK0057	Elkins	Baca/Prewitt			4	8	12	0	200	80	280	280
356	NMMK0206	Section 22	Baca/Prewitt	Off Navajo Nation	1	2	8	11	100	100	80	280	280
125	NA-0127		Coalmine Canyon			2	18	20	0	100	180	280	280
126	NA-0128A	Lemuel Littleman No. 2	Coalmine Canyon			2	18	20	0	100	180	280	280
354	NMMK0214	Section 24	Off Navajo Nation			2	18	20	0	100	180	280	280
365	NMMK0218	Section 25 SEQ	Off Navajo Nation			2	0	8	10	200	0	80	280
368	NMMK0218	Section 25 SEQ	Off Navajo Nation			2	0	8	10	200	0	80	280
392	Mon030	Tract 24 Mine - B	Ojato			2	18	20	0	100	180	280	280
9	NA-0803	Lookout Point Mines	Red Valley			2	18	20	0	100	180	280	280
5	NA-0824		Red Valley			1	0	18	19	100	0	180	280
12	NA-0827	Williams Point Mine	Red Valley			2	18	20	0	100	180	280	280
333	NMMK0345	Yucca	Baca/Prewitt			1	22	23	0	50	220	270	270
74	NA-0712		Chilchinbeto			1	22	23	0	50	220	270	270
18	NA-0801		Red Valley			2	17	19	0	100	170	270	270
41	NA-0818		Red Valley			2	17	19	0	100	170	270	270
440	Oak238		Red Valley			2	17	19	0	100	170	270	270
63	NA-0928		Teeec Nos Pos	Sweetwater		2	17	19	0	100	170	270	270
130	NA-0131a	Elwood Canyon No. 1	Coalmine Canyon			2	16	18	0	100	160	260	260
131	NA-0134	Alice Tolino No. 1 & 3	Coalmine Canyon			2	16	18	0	100	160	260	260
133	NA-0135	Evans Huskon No. 2	Coalmine Canyon			2	16	18	0	100	160	260	260
134	NA-0137	Yazzie No. 312	Coalmine Canyon			2	16	18	0	100	160	260	260
242	NA-0225	John Yazzie #1 Mine	Kayenta			3	11	14	0	150	110	260	260
22	NA-0406	Leroy Mine	Red Valley			2	16	18	0	100	160	260	260
487	NA-0811	King Tutt Point Mines	Red Valley			2	16	18	0	100	160	260	260
1	NA-0828	Red Wash Mine (Leroy Pettigrew)	Red Valley			2	16	18	0	100	160	260	260
43	NA-0828		Red Valley			2	16	18	0	100	160	260	260
441	Oak230		Red Valley			2	16	18	0	100	160	260	260
382	Cam043		Cameron			1	20	21	0	50	200	250	250
132	NA-0136	Yazzie No. 101	Coalmine Canyon			2	15	17	0	100	150	250	250
123	NA-0141	Juan Horse No. 4	Coalmine Canyon			2	15	17	0	100	150	250	250
21	NA-0405		Red Valley			2	15	17	0	100	150	250	250
23	NA-0407	Lower Canyon Mine	Red Valley			2	15	17	0	100	150	250	250
16	NA-0823	Upper Salt Rock Canyon Mine	Red Valley			1	19	20	0	50	190	240	

TABLE 3. Groundwater Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Wells on Mine Count	1/4 Mile Wells Count	1 Mile Wells Count	4 Mile Wells Count	Total Wells	1/4 Mile Score	1 Mile Score	4 Mile Score	Total Ground Water Score
71	NA-0902 NA-0917A NA-0917B		Teeec Nos Pos			1	19	20	0	50	190	240	
72	NA-0902 NA-0918		Teeec Nos Pos			1	19	20	0	50	190	240	
491	NA-0907		Teeec Nos Pos			1	19	20	0	50	190	240	
70	NA-0918		Teeec Nos Pos			1	19	20	0	50	190	240	
64	NA-0929		Teeec Nos Pos			1	19	20	0	50	190	240	
284	NA-0931		Teeec Nos Pos			2	14	16	0	100	140	240	
492	Tse079		Teeec Nos Pos			1	19	20	0	50	190	240	
176	NA-0107	Montezuma No. 1	Cameron			1	18	19	0	50	180	230	
358	NMMK0051	Dysart No. 1	Off Navajo Nation		1	1	8	10	100	50	80	230	
370	NMMK0235	Section 30	Off Navajo Nation			3	8	11	0	150	80	230	
371	NMMK0235	Section 30	Off Navajo Nation			3	8	11	0	150	80	230	
372	NMMK0235	Section 30	Off Navajo Nation			3	8	11	0	150	80	230	
189	NA-0509A		Red Mesa			1	0	13	14	100	0	130	230
477	NA-0805	Shadyside Incine	Red Valley			1	18	19	0	50	180	230	
2	NA-0817		Red Valley			1	18	19	0	50	180	230	
13	NA-0819a	Salt Canyon Mines	Red Valley			1	18	19	0	50	180	230	
14	NA-0819b	Salt Canyon Mines	Red Valley			1	18	19	0	50	180	230	
4	NA-0826		Red Valley			1	18	19	0	50	180	230	
116	NA-0919A		Teeec Nos Pos			1	18	19	0	50	180	230	
69	NA-0919B		Teeec Nos Pos			1	18	19	0	50	180	230	
62	NA-0927		Teeec Nos Pos			1	18	19	0	50	180	230	
476	NMMK0085	Hutton-James	Baca/Prewitt			0	22	22	0	0	220	220	
332	NMMK0136	Red Cap	Baca/Prewitt			2	12	14	0	100	120	220	
	NMMK0221 NMMK0207												
364	NMMK0338	Section 26	Baca/Prewitt	Off Navajo Nation		3	7	10	0	150	70	220	
337	NMMK0249	Section 34	Baca/Prewitt			0	22	22	0	0	220	220	
325	NMMK0257	Silver Bit	Baca/Prewitt			0	22	22	0	0	220	220	
120	NA-0123	Charles Huskon No. 19	Coalmine Canyon			2	12	14	0	100	120	220	
367	NMMK0218	Section 25 SEQ	Off Navajo Nation			3	7	10	0	150	70	220	
369	NMMK0218	Section 25 SEQ	Off Navajo Nation			3	7	10	0	150	70	220	
226	NA-0218	Monument #3 Mine	Ojato			0	22	22	0	0	220	220	
27	NA-0410	Lone Star Mine	Red Valley			1	17	18	0	50	170	220	
	Begay No. 1 and Carrizo No. 1 Mines												
485	NA-0812		Red Valley			1	17	18	0	50	170	220	
3	NA-0816		Red Valley			1	17	18	0	50	170	220	
331	NMMK0076	Haven	Baca/Prewitt			2	11	13	0	100	110	210	
324	NMMK0255	Silver Bit	Baca/Prewitt			1	16	17	0	50	160	210	
276	NA-0420		Beclabito			3	6	9	0	150	60	210	
236	NA-0111		Coalmine Canyon			1	1	6	8	100	50	60	210
119	NA-0125	Charles Huskon No. 12	Coalmine Canyon			1	16	17	0	50	160	210	
129	NA-0131b	Max Johnson No. 9	Coalmine Canyon			1	16	17	0	50	160	210	
304	NMMK0117 NMMK0315	NE Church Rock	Pinedale			1	0	11	12	100	0	110	210

TABLE 3. Groundwater Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Wells on Mine Count	1/4 Mile Wells Count	1 Mile Wells Count	4 Mile Wells Count	Total Wells	1/4 Mile Score	1 Mile Score	4 Mile Score	Total Ground Water Score
475	NMMK0277	Unknown	Baca/Prewitt				0	20	20	0	0	200	200
15	NA-0802	Franks Point Mine	Red Valley			0	20	20	0	0	0	200	200
290	NA-0259		Bodaway/Gap			3	4	7	0	150	40	190	
302	NMMK0247	Section 32, 33	Casamero Lake	Baca/Prewitt		1	14	15	0	50	140	190	
310	NMMK0028	CD and S	Church Rock			0	19	19	0	0	190	190	
357	NMMK0183	Section 15	Off Navajo Nation			3	4	7	0	150	40	190	
26	NA-0409	Hazel Mine	Red Valley			0	19	19	0	0	190	190	
28	NA-0411	Cottonwood Butte Mine	Red Valley			1	14	15	0	50	140	190	
10	NA-0810	Begay No. 2 Mine	Red Valley			0	19	19	0	0	190	190	
11	NA-0813		Red Valley			0	19	19	0	0	190	190	
17	NA-0818		Red Valley			0	19	19	0	0	190	190	
289	NA-0823	Lower Salt Rock Canyon Mine	Red Valley			0	19	19	0	0	190	190	
319	NMMK0016	Black Jack No. 2	Smith Lake		1	0	9	10	100	0	90	190	
292	NA-0900		Teeec Nos Pos			0	19	19	0	0	190	190	
343	NMMK0195	Section 18	Baca/Prewitt			3	3	6	0	150	30	180	
47	NA-0404		Beclabito			2	8	10	0	100	80	180	
265	NA-0413		Beclabito			1	13	14	0	50	130	180	
269	NA-0414		Beclabito			1	13	14	0	50	130	180	
384	Cam051		Cameron			1	13	14	0	50	130	180	
313	NMMK0230	Section 28	Church Rock			0	18	18	0	0	180	180	
127	NA-0128B	Lemuel Littleman No. 2	Coalmine Canyon			0	18	18	0	0	180	180	
291	NA-0751		Indian Wells		1	0	8	9	100	0	80	180	
366	NMMK0218	Section 25 SEQ	Off Navajo Nation			2	8	10	0	100	80	180	
449	Swt047		Red Mesa			1	13	14	0	50	130	180	
488	NA-0807	Begay No. 1 and Carrizo No. 1 Mines	Red Valley			0	18	18	0	0	180	180	
486	Oak125		Red Valley			0	18	18	0	0	180	180	
77	NA-0700		Rough Rock			0	18	18	0	0	180	180	
282	NA-0402		Teeec Nos Pos			0	18	18	0	0	180	180	
336	NMMK0002	Alta	Baca/Prewitt			0	17	17	0	0	170	170	
334	NMMK0058	Evelyn	Baca/Prewitt			1	12	13	0	50	120	170	
344	NMMK0081	Haystack	Baca/Prewitt			2	7	9	0	100	70	170	
473	NMMK0159	Section 2	Baca/Prewitt			0	17	17	0	0	170	170	
266	NA-0413		Beclabito			1	12	13	0	50	120	170	
230	NA-0124B	Kachina No. 6	Coalmine Canyon			1	12	13	0	50	120	170	
229	NA-0124C	Jack Daniels No. 1-5	Coalmine Canyon			1	12	13	0	50	120	170	
240	NA-0226		Kayenta			1	12	13	0	50	120	170	
359	NMMK0175	Section 10	Off Navajo Nation			2	7	9	0	100	70	170	
362	NMMK0216	Section 25	Off Navajo Nation			2	7	9	0	100	70	170	
363	NMMK0219		Section 25 Open Pit	Off Navajo Nation		2	7	9	0	100	70	170	
25	NA-0400	Syracuse Mine	Red Valley			0	17	17	0	0	170	170	
30	NA-0817	Red Wash Mine (Hosteen S. Begay)	Red Valley			0	17	17	0	0	170	170	
335	NMMK0071	Frances	Baca/Prewitt			0	16	16	0	0	160	160	
345	NMMK0077	Haystack	Baca/Prewitt			1	11	12	0	50	110	160	

TABLE 3. Groundwater Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Wells on Mine Count	1/4 Mile Wells Count	1 Mile Wells Count	4 Mile Wells Count	Total Wells	1/4 Mile Score	1 Mile Score	4 Mile Score	Total Ground Water Score
375	Cam033		Coalmine Canyon				0	16	16	0	0	160	160
506	Cov086		Cove			1	11	12	0	50	110	160	
507	Cov087		Cove			1	11	12	0	50	110	160	
505	NA-0317		Cove			1	11	12	0	50	110	160	
508	NA-0317		Cove			1	11	12	0	50	110	160	
509	NA-0317		Cove			1	11	12	0	50	110	160	
105	NA-0319		Cove			1	11	12	0	50	110	160	
238	NA-0226	Harvey Blackwater Claim (South)	Kayenta			1	11	12	0	50	110	160	
318	NMMK0097	Mac No. 1	Mariano Lake			2	6	8	0	100	60	160	
24	NA-0408		Red Valley			0	16	16	0	0	160	160	
218	NA-0506		Sweetwater			0	16	16	0	0	160	160	
219	NA-0518		Sweetwater			0	16	16	0	0	160	160	
341	NMMK0079	Haystack	Baca/Prewitt			1	10	11	0	50	100	150	
510	NA-0301	Frank No. 1 Mines	Cove			1	10	11	0	50	100	150	
191	NA-0507	Toh Atin Mesa Mine	Red Mesa			0	15	15	0	0	150	150	
432	Oak221	Rocky Spring Mine	Red Valley			1	0	5	6	100	0	50	150
270	NA-0418		Beclabito			0	14	14	0	0	140	140	
281	NA-0419		Beclabito			1	9	10	0	50	90	140	
279	NA-0422		Beclabito			1	0	4	5	100	0	40	140
400	Blk001		Chilchinbeto			1	9	10	0	50	90	140	
401	Blk001a		Chilchinbeto			1	9	10	0	50	90	140	
402	Blk002		Chilchinbeto			1	9	10	0	50	90	140	
75	NA-0705		Chilchinbeto			1	9	10	0	50	90	140	
76	NA-0710		Chilchinbeto			1	9	10	0	50	90	140	
312	NMMK0083	Hogback	Church Rock			0	14	14	0	0	140	140	
376	Cam042		Coalmine Canyon			2	4	6	0	100	40	140	
94	NA-0310A		Cove			1	9	10	0	50	90	140	
305	NMMK0112	Church Rock No. 1	Coyote Canyon			1	9	10	0	50	90	140	
241	NA-0224		Kayenta			0	14	14	0	0	140	140	
317	NMMK0102	Mariano Lake	Mariano Lake			1	9	10	0	50	90	140	
31	NA-0825	Upper Red Wash Mine	Red Valley			0	14	14	0	0	140	140	
32	NA-0825	Upper Red Wash Mine	Red Valley			0	14	14	0	0	140	140	
320	NMMK0098	Mac No. 2	Smith Lake			1	9	10	0	50	90	140	
217	NA-0506		Sweetwater			0	14	14	0	0	140	140	
342	NMMK0080	Haystack	Baca/Prewitt			1	8	9	0	50	80	130	
339	NMMK0096	Lost Mine	Baca/Prewitt			0	13	13	0	0	130	130	
442	Bec054		Beclabito			0	13	13	0	0	130	130	
268	NA-0415		Beclabito			0	13	13	0	0	130	130	
267	NA-0416		Beclabito			0	13	13	0	0	130	130	
271	NA-0417		Beclabito			0	13	13	0	0	130	130	
272	NA-0418		Beclabito			0	13	13	0	0	130	130	
170	NA-0164	Taylor Reid No. 2	Cameron			2	3	5	0	100	30	130	
73	NA-0711		Chilchinbeto			0	13	13	0	0	130	130	
314	NMMK0047	Diamond No. 2	Church Rock			0	13	13	0	0	130	130	
426	Cov098		Cove			0	13	13	0	0	130	130	
415	Cov230		Cove			1	8	9	0	50	80	130	

TABLE 3. Groundwater Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Wells on Mine Count	1/4 Mile Wells Count	1 Mile Wells Count	4 Mile Wells Count	Total Wells	1/4 Mile Score	1 Mile Score	4 Mile Score	Total Ground Water Score
106	NA-0316	Frank No. 1 Mines	Cove				1	8	9	0	50	80	130
107	NA-0316		Cove				1	8	9	0	50	80	130
104	NA-0320		Cove				0	13	13	0	0	130	130
311	NMMK0341	Westwater	Iyanbito				0	13	13	0	0	130	130
301	NMMK0102	Mariano Lake	Mariano Lake				1	8	9	0	50	80	130
294	W027031	PETE 6 & 7	Aneth	Off Navajo Nation			0	12	12	0	0	120	120
346	NMMK0168	Section 5	Baca/Prewitt				1	7	8	0	50	70	120
420	Cov068		Cove				0	12	12	0	0	120	120
421	Cov099	Frank Jr. Mine	Cove				0	12	12	0	0	120	120
103	NA-0302	Mesa V Mine	Cove				0	12	12	0	0	120	120
101	NA-0314		Cove				1	7	8	0	50	70	120
100	NA-0315		Cove				0	12	12	0	0	120	120
99	NA-0318		Cove				0	12	12	0	0	120	120
102	NA-0318		Cove				0	12	12	0	0	120	120
469	NA-0319		Cove				0	12	12	0	0	120	120
287	NA-0324		Cove				0	12	12	0	0	120	120
237	NA-0213		Dennehotso				1	7	8	0	50	70	120
	NMMK0113												
303	NMMK0116	Church Rock No. 1-East	Nahodishgish				1	7	8	0	50	70	120
360	NMMK0019	Bobcat	Off Navajo Nation				1	7	8	0	50	70	120
513	NA-0222		Ojato				0	12	12	0	0	120	120
448	Swt048		Red Mesa				0	12	12	0	0	120	120
494	Cov110	East Mesa Mines	Red Valley				1	7	8	0	50	70	120
493	NA-0339	East Mesa Mines	Red Valley				1	7	8	0	50	70	120
435	Swt036		Sweetwater				0	12	12	0	0	120	120
338	NMMK0096	Lost Mine	Baca/Prewitt				0	11	11	0	0	110	110
444	Bec064		Beclabito				0	11	11	0	0	110	110
445	Bec068		Beclabito				0	11	11	0	0	110	110
46	NA-0403		Beclabito				0	11	11	0	0	110	110
48	NA-0404		Beclabito				0	11	11	0	0	110	110
165	NA-0114AAA		Bodaway/Gap				0	11	11	0	0	110	110
163	NA-0114AAB		Bodaway/Gap				0	11	11	0	0	110	110
164	NA-0114AAC		Bodaway/Gap				0	11	11	0	0	110	110
166	NA-0116		Bodaway/Gap				0	11	11	0	0	110	110
453	67a	Section 1 Lease	Cameron	Off Navajo Nation			1	6	7	0	50	60	110
140	NA-0149A	Charles Huskon No. 3	Cameron				0	11	11	0	0	110	110
137	NA-0149d	Charles Huskon No. 3	Cameron				1	6	7	0	50	60	110
110	NA-0551	Foutz No. 2	Church Rock				0	11	11	0	0	110	110
373	Cam018		Coalmine Canyon				0	11	11	0	0	110	110
159	NA-0194	Julius Chee No. 3	Coalmine Canyon				1	6	7	0	50	60	110
	NA-0300												
	NA-0310B												
	NA-0310C												
93	NA-0310D		Cove				0	11	11	0	0	110	110
454	67b	Section 1 Lease	Off Navajo Nation				1	6	7	0	50	60	110
394	Mon006	Joe Rock Mine	Ojato				0	11	11	0	0	110	110
514	Mon011	Naschoy Mine	Ojato				0	11	11	0	0	110	110

TABLE 3. Groundwater Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Wells on Mine Count	1/4 Mile Wells Count	1 Mile Wells Count	4 Mile Wells Count	Total Wells	1/4 Mile Score	1 Mile Score	4 Mile Score	Total Ground Water Score
283	NA-0930		Teeec Nos Pos				0	11	11	0	0	110	110
348	NMMK0041	Dakota	Baca/Prewitt				0	10	10	0	0	100	100
351	NMMK0090	Junior	Baca/Prewitt				0	10	10	0	0	100	100
349	NMMK0123	Pat	Baca/Prewitt				0	10	10	0	0	100	100
350	NMMK0123	Pat	Baca/Prewitt				0	10	10	0	0	100	100
352	NMMK0164	Section 4	Baca/Prewitt				0	10	10	0	0	100	100
443	Bec060		Bedabito				0	10	10	0	0	100	100
447	Bec070		Bedabito				0	10	10	0	0	100	100
49	NA-0401	Copper Mine	Bedabito				0	10	10	0	0	100	100
29	NA-0412	Upper Red Canyon Mine	Bedabito				0	10	10	0	0	100	100
87	NA0709A		Black Mesa				1	5	6	0	50	50	100
88	NA0709C		Black Mesa				1	5	6	0	50	50	100
233	NA-0110A	Max Johnson No. 7	Coalmine Canyon				1	5	6	0	50	50	100
156	NA-0196B	RAMCO No. 24	Coalmine Canyon				1	5	6	0	50	50	100
423	Cov026		Cove				1	5	6	0	50	50	100
111	NA-0552	Section 3	Iyanbito				0	10	10	0	0	100	100
490	Bec002	Toni Tuc No. 1 Mine	Red Valley	Beclabito			0	10	10	0	0	100	100
489	NA-0425	Toni Tuc No. 1 Mine	Red Valley	Beclabito			0	10	10	0	0	100	100
347	NMMK0138	Red Point	Baca/Prewitt				0	9	9	0	0	90	90
280	NA-0421		Beclabito				1	4	5	0	50	40	90
162	NA-0114DAA		Bodaway/Gap				0	9	9	0	0	90	90
138	NA-0149c	Charles Huskon No. 3	Cameron				0	9	9	0	0	90	90
167	NA-0158B	Charles Huskon No. 8	Cameron				1	4	5	0	50	40	90
169	NA-0159	Boyd Tisi No. 1	Cameron				1	4	5	0	50	40	90
209	NA-0550	Foutz 3	Church Rock	Iyanbito			0	9	9	0	0	90	90
361	NMMK0018	Blue Peak	Off Navajo Nation				0	9	9	0	0	90	90
252	NA-0201	Boot Jack Mine	Ojato				0	9	9	0	0	90	90
40	NA-0338	West Mesa Mine	Round Rock	Red Valley			0	9	9	0	0	90	90
340	NMMK0258	Silver Spur	Baca/Prewitt				0	8	8	0	0	80	80
446	Bec090		Beclabito				1	3	4	0	50	30	80
278	NA-0423		Beclabito	Teeec Nos Pos			1	3	4	0	50	30	80
78	NA-0701		Black Mesa				1	3	4	0	50	30	80
79	NA-0701		Black Mesa				1	3	4	0	50	30	80
86	NA0709B		Black Mesa				1	3	4	0	50	30	80
139	NA-0149b	Charles Huskon No. 3	Cameron				0	8	8	0	0	80	80
374	Cam012		Coalmine Canyon				1	3	4	0	50	30	80
121	NA-0113	Jeepster No. 1	Coalmine Canyon				1	3	4	0	50	30	80
417	Cov053		Cove				0	8	8	0	0	80	80
248	NA-0233	Alma-Seggin Mine	Ojato				0	8	8	0	0	80	80
81	NA-0702		Tselani/Cottonwood				1	3	4	0	50	30	80
452	7	A & B No. 13	Bodaway/Gap				1	2	3	0	50	20	70
383	Cam052		Cameron				0	7	7	0	0	70	70
143	NA-0153	Yazzie No. 102	Cameron				0	7	7	0	0	70	70
142	NA-0154	Yazzie No. 102	Cameron				0	7	7	0	0	70	70
308	NMMK0124	Section 13	Church Rock				0	7	7	0	0	70	70
155	NA-0196A	RAMCO No. 24	Coalmine Canyon				0	7	7	0	0	70	70
425	Cov000		Cove				0	7	7	0	0	70	70

TABLE 3. Groundwater Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Wells on Mine Count	1/4 Mile Wells Count	1 Mile Wells Count	4 Mile Wells Count	Total Wells	1/4 Mile Score	1 Mile Score	4 Mile Score	Total Ground Water Score
418	Cov033		Cove				0	7	7	0	0	70	70
424	Cov052		Cove			0	7	7	0	0	70	70	
416	Cov054		Cove			0	7	7	0	0	70	70	
96	NA-0312		Cove			0	7	7	0	0	70	70	
97	NA-0312		Cove			0	7	7	0	0	70	70	
98	NA-0313		Cove			0	7	7	0	0	70	70	
286	NA-0321		Cove			0	7	7	0	0	70	70	
285	NA-0323		Cove			0	7	7	0	0	70	70	
262	NA-0205	Tract 11E	Ojato			0	7	7	0	0	70	70	
511	NA-0329		Round Rock			0	7	7	0	0	70	70	
	NMMK0064												
450	NMMK0259	Febco	Baca/Prewitt			0	6	6	0	0	60	60	
474	NMMK0152	Section 1	Baca/Prewitt			0	6	6	0	0	60	60	
141	NA-0155A	Charles Huskon No. 10	Cameron			0	6	6	0	0	60	60	
232	NA-0155B	Charles Huskon No. 10	Cameron			0	6	6	0	0	60	60	
309	NMMK0209	Section 23	Church Rock			0	6	6	0	0	60	60	
379	Cam042		Coalmine Canyon			0	6	6	0	0	60	60	
234	NA-0110B	Amos Chee No. 8	Coalmine Canyon			0	6	6	0	0	60	60	
231	NA-0121	Evans Huskon No. 34	Coalmine Canyon			0	6	6	0	0	60	60	
122	NA-0148	Jack Huskon No. 3	Coalmine Canyon	Cameron		0	6	6	0	0	60	60	
158	NA-0195	Julius Chee No. 2	Coalmine Canyon			0	6	6	0	0	60	60	
		Charles Huskon No. 4 & Paul Huskie No. 3	Coalmine Canyon			0	6	6	0	0	60	60	
157	NA-0197		Coalmine Canyon			0	6	6	0	0	60	60	
235	NA-0197B	Charles Huskon No. 18	Coalmine Canyon			0	6	6	0	0	60	60	
154	NA-0198	Emmet Lee No. 3	Coalmine Canyon			0	6	6	0	0	60	60	
419	Cov027		Cove			0	6	6	0	0	60	60	
95	NA-0311		Cove			0	6	6	0	0	60	60	
288	NA-0322		Cove			0	6	6	0	0	60	60	
395	Mon0076a		Ojato			0	6	6	0	0	60	60	
428	Cov216	Knife Edge Mesa Mine	Round Rock			0	6	6	0	0	60	60	
512	NA-0329		Round Rock			0	6	6	0	0	60	60	
204	NA-0330		Round Rock			0	6	6	0	0	60	60	
203	NA-0331		Round Rock			0	6	6	0	0	60	60	
207	NA-0343		Round Rock			0	6	6	0	0	60	60	
406	Blk029		Black Mesa			0	5	5	0	0	50	50	
168	NA-0158A	Charles Huskon No. 8	Cameron			0	5	5	0	0	50	50	
422	Cov030		Cove			0	5	5	0	0	50	50	
227	NA-0236	Tract 7	Ojato			0	5	5	0	0	50	50	
220	NA-0508B		Red Mesa			0	5	5	0	0	50	50	
429	Cov226	Cisco Mine	Round Rock			0	5	5	0	0	50	50	
467	NA-0326	Joleo Mine	Round Rock			0	5	5	0	0	50	50	
205	NA-0327		Round Rock			0	5	5	0	0	50	50	
206	NA-0328		Round Rock			0	5	5	0	0	50	50	
451	8	A & B No. 7	Bodaway/Gap			0	4	4	0	0	40	40	
385	Cam056		Cameron			0	4	4	0	0	40	40	
296	Occurrence B	Occurrence B	Chinle			0	4	4	0	0	40	40	
92	NA-0104	Charles Huskon No. 6	Coalmine Canyon			0	4	4	0	0	40	40	

TABLE 3. Groundwater Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Wells on Mine Count	1/4 Mile Wells Count	1 Mile Wells Count	4 Mile Wells Count	Total Wells	1/4 Mile Score	1 Mile Score	4 Mile Score	Total Ground Water Score
239	NA-0226	Harvey Blackwater Claim (North)	Kayenta			0	4	4	0	0	40	40	
464		Off Navajo Nation				0	4	4	0	0	40	40	
396	Mon065	Ojato				0	4	4	0	0	40	40	
263	NA-0203	Tract 11	Ojato			0	4	4	0	0	40	40	
249	NA-0209	Black Rock Mine	Ojato			0	4	4	0	0	40	40	
250	NA-0209	Black Rock Mine	Ojato			0	4	4	0	0	40	40	
190	NA-0508A	Red Mesa				0	4	4	0	0	40	40	
208	NA-0325	Camp Mine	Round Rock			0	4	4	0	0	40	40	
202	NA-0332		Round Rock			0	4	4	0	0	40	40	
201	NA-0333		Round Rock			0	4	4	0	0	40	40	
80	NA-0706		Tachee/Blue Gap			0	4	4	0	0	40	40	
405	Bik019b		Tselani/Cottonwood			0	4	4	0	0	40	40	
403	Bik020		Tselani/Cottonwood			0	4	4	0	0	40	40	
82	NA-0704		Tselani/Cottonwood	Tachee/Blue Gap		0	4	4	0	0	40	40	
83	NA-0707		Tselani/Cottonwood			0	4	4	0	0	40	40	
85	NA-0703		Black Mesa			0	3	3	0	0	30	30	
91	NA-0101	Jimmie Boone B	Bodaway/Gap			0	3	3	0	0	30	30	
161	NA-0114DAB		Bodaway/Gap			0	3	3	0	0	30	30	
Zhealy Tso, N.													
300	Part Parcel 1	Zhealy Tso	Chinle			0	3	3	0	0	30	30	
Zhealy Tso, S.													
297	Part Parcel 1	Zhealy Tso	Chinle			0	3	3	0	0	30	30	
Zhealy Tso, W.													
298	Part Parcel 1	Zhealy Tso	Chinle			0	3	3	0	0	30	30	
Zhealy Tso, W.													
299	Part Parcel 1	Zhealy Tso	Chinle			0	3	3	0	0	30	30	
174	NA-0109	Jackpot No. 40	Coalmine Canyon			0	3	3	0	0	30	30	
153	NA-0174	RAMCO No. 20	Coalmine Canyon			0	3	3	0	0	30	30	
149	NA-0179	Yazzie No. 1	Coalmine Canyon			0	3	3	0	0	30	30	
148	NA-0180	Yazzie No. 2	Coalmine Canyon			0	3	3	0	0	30	30	
173	NA-0184	Charles Huskon No. 17	Coalmine Canyon			0	3	3	0	0	30	30	
147	NA-0186	Jackpot No. 1	Coalmine Canyon			0	3	3	0	0	30	30	
146	NA-0187	Jackpot No. 5	Coalmine Canyon			0	3	3	0	0	30	30	
399	Mon019	Sally Mine	Kayenta			0	3	3	0	0	30	30	
463	88	Black Point-Murphy Group	Off Navajo Nation			0	3	3	0	0	30	30	
458	71b	Section 9 Lease	Off Navajo Nation			0	3	3	0	0	30	30	
459	71c	Section 9 Lease	Off Navajo Nation			0	3	3	0	0	30	30	
222	NA-0223		Ojato			0	3	3	0	0	30	30	
433	San018		Red Valley			0	3	3	0	0	30	30	
427	Cov198		Round Rock			0	3	3	0	0	30	30	
200	NA-0334	Jimmie King No. 9 Mine	Round Rock			0	3	3	0	0	30	30	
199	NA-0335		Round Rock			0	3	3	0	0	30	30	
468	NA-0336	Hall Mine	Round Rock			0	3	3	0	0	30	30	
197	NA-0337	Mexican Cry Mine	Round Rock			0	3	3	0	0	30	30	
198	NA-0337	Mexican Cry Mine	Round Rock			0	3	3	0	0	30	30	
183	NA-0102	Paul Huskie No.21	Bodaway/Gap			0	2	2	0	0	20	20	

TABLE 3. Groundwater Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Wells on Mine Count	1/4 Mile Wells Count	1 Mile Wells Count	4 Mile Wells Count	Total Wells	1/4 Mile Score	1 Mile Score	4 Mile Score	Total Ground Water Score
177	NA-0103A	Earl Huskon No. 3	Bodaway/Gap				0	2	2	0	0	20	20
178	NA-0103B	Earl Huskon No. 1	Bodaway/Gap			0	2	2	0	0	0	20	20
118	NA-0105a	Henry Sloan No. 1	Bodaway/Gap			0	2	2	0	0	0	20	20
117	NA-0105b	Henry Sloan No. 1	Bodaway/Gap			0	2	2	0	0	0	20	20
171	NA-0112		Bodaway/Gap			0	2	2	0	0	0	20	20
172	NA-0113		Bodaway/Gap			0	2	2	0	0	0	20	20
456	Cam068b		Cameron			0	2	2	0	0	0	20	20
144	NA-0166	Charles Huskon No. 11	Cameron	Off Navajo Nation		0	2	2	0	0	0	20	20
378	Cam062		Coalmine Canyon			0	2	2	0	0	0	20	20
145	NA-0163	Ryan No. 1	Coalmine Canyon			0	2	2	0	0	0	20	20
90	NA-0172a	RAMCO No. 21	Coalmine Canyon			0	2	2	0	0	0	20	20
150	NA-0172B	RAMCO No. 21	Coalmine Canyon			0	2	2	0	0	0	20	20
152	NA-0175	Ryan No. 2	Coalmine Canyon			0	2	2	0	0	0	20	20
243	NA-0235		Kayenta			0	2	2	0	0	0	20	20
244	NA-0235		Kayenta			0	2	2	0	0	0	20	20
457	71a	Section 9 Lease	Off Navajo Nation			0	2	2	0	0	0	20	20
44	NA-0610		Sanostee			0	2	2	0	0	0	20	20
		Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater			0	2	2	0	0	0	20	20
502	Cov121		Sweetwater			0	2	2	0	0	0	20	20
500	Cov122		Sweetwater			0	2	2	0	0	0	20	20
503	Cov125		Sweetwater			0	2	2	0	0	0	20	20
434	Cov178		Sweetwater	Red Valley		0	2	2	0	0	0	20	20
497	NA-0304		Sweetwater			0	2	2	0	0	0	20	20
498	NA-0305		Sweetwater			0	2	2	0	0	0	20	20
39	NA-0306		Sweetwater			0	2	2	0	0	0	20	20
499	NA-0340		Sweetwater			0	2	2	0	0	0	20	20
216	NA-0504		Sweetwater			0	2	2	0	0	0	20	20
184	NA-0505A		Sweetwater			0	2	2	0	0	0	20	20
404	Blk022		Tselani/Cottonwood			0	2	2	0	0	0	20	20
84	NA-0708		Tselani/Cottonwood			0	2	2	0	0	0	20	20
377	Cam057		Coalmine Canyon			0	1	1	0	0	0	10	10
380	Cam060		Coalmine Canyon			0	1	1	0	0	0	10	10
381	Cam061		Coalmine Canyon			0	1	1	0	0	0	10	10
151	NA-0173	RAMCO No. 22	Coalmine Canyon			0	1	1	0	0	0	10	10
390	Mon060		Ojato			0	1	1	0	0	0	10	10
386	Mon061	Alfred Mills	Ojato			0	1	1	0	0	0	10	10
387	Mon062	Tract 12	Ojato			0	1	1	0	0	0	10	10
397	Mon063	Tract 15	Ojato	Shonto		0	1	1	0	0	0	10	10
388	Mon064	Horsetrail	Ojato			0	1	1	0	0	0	10	10
221	NA-0223		Ojato			0	1	1	0	0	0	10	10

TABLE 3. Groundwater Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Wells on Mine Count	1/4 Mile Wells Count	1 Mile Wells Count	4 Mile Wells Count	Total Wells	1/4 Mile Score	1 Mile Score	4 Mile Score	Total Ground Water Score
431	Cov175	Cove Mesa Mines (AEC Lease Plot 7)	Red Valley				0	1	1	0	0	10	10
501	Cov176	Cove Mesa Mines (AEC Lease Plot 7)	Red Valley				0	1	1	0	0	10	10
430	Cov177	Cove Mesa Mines (AEC Lease Plot 7)	Red Valley				0	1	1	0	0	10	10
34	NA-0308	Cove Mesa Mines (Cato Sells)	Red Valley				0	1	1	0	0	10	10
35	NA-0341	Cove Mesa Mines (Cato Sells)	Red Valley				0	1	1	0	0	10	10
45	NA-0601		Sanostee				0	1	1	0	0	10	10
192	NA-0603		Sanostee				0	1	1	0	0	10	10
466	NA-0604		Sanostee				0	1	1	0	0	10	10
195	NA-0608		Sanostee				0	1	1	0	0	10	10
465	NA-0611		Sanostee				0	1	1	0	0	10	10
193	NA-0612		Sanostee				0	1	1	0	0	10	10
194	NA-0613		Sanostee				0	1	1	0	0	10	10
407	San001		Sanostee				0	1	1	0	0	10	10
411	San002		Sanostee				0	1	1	0	0	10	10
414	San003		Sanostee				0	1	1	0	0	10	10
413	San006		Sanostee				0	1	1	0	0	10	10
412	San007	Enos Johnson Mine	Sanostee				0	1	1	0	0	10	10
410	San008		Sanostee				0	1	1	0	0	10	10
409	San010		Sanostee				0	1	1	0	0	10	10
408	San017		Sanostee				0	1	1	0	0	10	10
504	NA-0303	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater	Red Valley			0	1	1	0	0	10	10
496	NA-0307	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater				0	1	1	0	0	10	10
36	NA-0308	Cove Mesa Mines (Cato Sells)	Sweetwater				0	1	1	0	0	10	10
37	NA-0308	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater				0	1	1	0	0	10	10
38	NA-0308	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater				0	1	1	0	0	10	10
495	NA-0309	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater				0	1	1	0	0	10	10
187	NA-0500		Sweetwater				0	1	1	0	0	10	10
185	NA-0505B		Sweetwater				0	1	1	0	0	10	10
186	NA-0505C		Sweetwater				0	1	1	0	0	10	10
398	Mon0076c		Kayenta				0	0	0	0	0	0	0
264	NA-0228	Tract 14	Ojato				0	0	0	0	0	0	0
196	UTAML	Whirlwind Mine	Ojato				0	0	0	0	0	0	0
439	Cov192		Red Valley				0	0	0	0	0	0	0
33	NA-0342	Tohe Thlany Begay Mine	Red Valley				0	0	0	0	0	0	0
273	NA-0510		Sweetwater				0	0	0	0	0	0	0

TABLE 3. Groundwater Pathway Score Table for AUMs on and Within One Mile of the Navajo Nation

Mine_ID	Source_ID	Mine_Name	Chapter1	Chapter2	Wells on Mine Count	1/4 Mile Wells Count	1 Mile Wells Count	4 Mile Wells Count	Total Wells	1/4 Mile Score	1 Mile Score	4 Mile Score	Total Ground Water Score
274	NA-0511		Sweetwater			0	0	0	0	0	0	0	0
275	NA-0511		Sweetwater			0	0	0	0	0	0	0	0
210	NA-0512		Sweetwater			0	0	0	0	0	0	0	0
211	NA-0513		Sweetwater			0	0	0	0	0	0	0	0
213	NA-0514	Mildred Mine	Sweetwater			0	0	0	0	0	0	0	0
212	NA-0515		Sweetwater			0	0	0	0	0	0	0	0
214	NA-0516		Sweetwater			0	0	0	0	0	0	0	0
215	NA-0516		Sweetwater			0	0	0	0	0	0	0	0
437	Swt002		Sweetwater			0	0	0	0	0	0	0	0
438	Swt003		Sweetwater			0	0	0	0	0	0	0	0
436	Swt018		Sweetwater			0	0	0	0	0	0	0	0

DISCLAIMER: The method used to prioritize the AUM sites is based on a limited subset of the locational-distance criteria in the HRS. It does not include many of the other criteria and factors built into the HRS model. Therefore, the scores derived under this model cannot be considered to be reflective of an HRS score, but are meant only to begin the process of prioritization based on distance from the AUM source.

TABLE 4. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Combined Score

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
276	676869.3608	4078265.148	NA-0420		Beclabito		2770	2770	160	210	5910
228	461705.0368	3970341.754	NA-0106	A & B No. 3	Cameron		2015	2015	160	550	4740
472	659600.7928	4047695.472	Cove Transfer Station	Cove Transfer Station	Cove		2020	2020	160	340	4540
277	676991.5014	4079038.105	NA-0424		Beclabito		1945	1945	160	310	4360
			NMMK0014 NMMK0073								
329	769073.2552	3924992.253	NMMK0200	Billy the Kid	Baca/Prewitt		1705	1705	160	470	4040
296	640679.4097	4005195.423	Occurrence B	Occurrence B	Chinle		1910	1910	160	40	4020
			NMMK0117								
304	724990.2083	3948613.167	NMMK0315	NE Church Rock	Pinedale		1705	1705	160	210	3780
223	569836.2211	4096789.794	NA-0237	Rock Door Mine	Ojato		1095	1095	160	370	2720
225	561505.8835	4099729.66	NA-0214	Keith Mine - A	Ojato		980	980	160	500	2620
175	459751.4357	3966216.404	NA-0108	A & B No. 2	Cameron		905	905	160	420	2390
344	777590.3945	3915767.031	NMMK0081	Haystack	Baca/Prewitt		910	910	160	170	2150
305	726199.6288	3949719.848	NMMK0112	Church Rock No. 1	Coyote Canyon		775	775	160	140	1850
317	746672.0385	3937211.988	NMMK0102	Mariano Lake	Mariano Lake		720	720	160	140	1740
			NMMK0034 NMMK0318								
307	721283.829	3944667.567	NMMK0319	Church Rock	Church Rock		630	630	160	300	1720
124	464642.4006	3970419.982	NA-0129	Charles Huskon No. 1	Coalmine Canyon		600	600	160	320	1680
19	673994.8837	4068594.665	NA-0808	Red Valley			550	550	160	410	1670
343	777886.451	3916315.588	NMMK0195	Section 18	Baca/Prewitt		660	660	160	180	1660
160	463797.0206	3973569.092	NA-0124a	Jack Daniels No. 1-5	Coalmine Canyon		585	585	160	300	1630
			NA-0902								
72	654134.8089	4085123.106	NA-0918		Teeec Nos Pos		615	615	160	240	1630
310	716868.3209	3939189.204	NMMK0028	CD and S	Church Rock		600	600	160	190	1550
114	652036.9826	4082181.552	NA-0922B		Sweetwater		330	330	160	710	1530
119	461989.3307	3972490.353	NA-0125	Charles Huskon No. 12	Coalmine Canyon		560	560	160	210	1490
479	675278.4065	4065140.506	NA-0822	Red Valley			460	460	160	410	1490
			NMMK0147								
323	757544.3801	3932903.287	NMMK0260	Ruby No. 3	Smith Lake		465	465	160	400	1490
478	675146.4742	4064898.133	Oak156	Red Valley			460	460	160	400	1480
480	675339.4538	4064919.219	NA-0821	Stripped Area 3 of VCA Plot 3	Red Valley		460	460	160	400	1480
52	651957.625	4082230.944	NA-0910		Sweetwater		300	300	160	710	1470
110	720573.2493	3938633.663	NA-0551	Foutz No. 2	Church Rock		595	595	160	110	1460
481	675305.8744	4064995.497	NA-0806		Red Valley		450	450	160	400	1460
50	652559.2127	4082162.877	NA-0914	Sah Tah Mine	Sweetwater	Teeec Nos Pos	180	180	160	910	1430
330	769756.7447	3924860.888	NMMK0141	Red Top	Baca/Prewitt		450	450	160	340	1400
328	768103.5275	3925379.282	NMMK0140	Red Top	Baca/Prewitt		420	420	160	390	1390
188	639455.6744	4080271.743	NA-0509B		Sweetwater		380	380	160	470	1390
292	653892.3854	4085334.23	NA-0900		Teeec Nos Pos		510	510	160	190	1370
224	564006.7351	4097094.92	NA-0215	Norcross Mine - A	Ojato		420	420	160	360	1360
20	674127.7291	4068561.433	NA-0800	Oak Springs Mine (Gravel Cap)	Red Valley		390	390	160	410	1350

TABLE 4. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Combined Score

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
			NA-0902 NA-0917A NA-0917B		Teeec Nos Pos		475	475	160	240	1350
71	654681.8533	4084638.448	NA-0127		Coalmine Canyon		440	440	160	280	1320
125	464693.8829	3970700.382	NA-0909		Sweetwater	Teeec Nos Pos	250	250	160	660	1320
51	652140.5679	4082648.961	NA-0922C		Sweetwater		220	220	160	720	1320
108	652303.4711	4081848.392	NMMK0015	Black Jack No. 1	Smith Lake		315	315	160	490	1280
322	756706.7427	3937172.781	NA-0828	Red Rock Mine	Red Valley		395	395	160	300	1250
42	675129.1157	4063374.979	NA-0815		Red Valley		360	360	160	370	1250
483	675587.8217	4065190.885	NMMK0038	Crownpoint	Nahodishgish		350	350	160	380	1240
315	750541.5846	3956065.934		Monument #1 Annex Mine	Ojato		320	320	160	440	1240
245	568823.6818	4089607.414	NA-0210	Max Johnson No. 10	Coalmine Canyon		370	370	160	320	1220
128	464819.668	3970159.567	NA-0130		Teeec Nos Pos		410	410	160	240	1220
492	654168.6186	4084656.471	Tse079	Crownpoint	Crownpoint		240	240	160	570	1210
316	751887.8934	3954316.678	NMMK0040		Haystack	Baca/Prewitt	455	455	160	130	1200
342	776953.5533	3916247.42	NMMK0080	Mariano Lake	Mariano Lake		455	455	160	130	1200
301	745811.3925	3937270.281	NMMK0102		Teeec Nos Pos		400	400	160	240	1200
70	654405.8658	4084646.71	NA-0918		Teeec Nos Pos	Sweetwater	240	240	160	560	1200
113	652348.9077	4082862.815	NA-0922A		Mac No. 1	Mariano Lake	435	435	160	160	1190
318	747884.4911	3936725.269	NMMK0097		Sweetwater	Teeec Nos Pos	255	255	160	520	1190
57	652072.7921	4083431.44	NA-0915		Red Valley		350	350	160	320	1180
482	675599.025	4065010.793	Oak143		Sweetwater	Teeec Nos Pos	150	150	160	720	1180
53	652666.6617	4082458.962	NA-0921A		Teeec Nos Pos		390	390	160	240	1180
491	654150.481	4084517.257	NA-0907	Harvey Black Mine	Ojato		180	180	160	650	1170
181	667535.1659	4093815.787	NA-0217		Sweetwater		170	170	160	670	1170
109	652288.3898	4082075.714	NA-0922C		Tachee/Blue Gap		480	480	160	40	1160
80	598259.9603	4011536.501	NA-0706		Haystack	Baca/Prewitt	410	410	160	160	1140
			NMMK0145 NMMK0146 NMMK0148								
321	751828.2705	3934200.194	Ruby No. 1		Smith Lake		300	300	160	370	1130
389	560251.9107	4097329.411	Mon069		Ojato		250	250	160	450	1110
54	652755.3276	4082730.256	NA-0908		Sweetwater	Teeec Nos Pos	90	90	160	760	1100
115	652681.6732	4082721.132	NA-0921B		Teeec Nos Pos	Sweetwater	100	100	160	720	1080
126	464881.6981	3970683.057	NA-0128A	Lemuel Littleman No. 2	Coalmine Canyon		310	310	160	280	1060
353	786015.9141	3923498.979	NMMK0220	Section 25	Off Navajo Nation		300	300	160	290	1050
65	652772.6789	4085408.211	NA-0923		Teeec Nos Pos		295	295	160	300	1050
			NMMK0113	Church Rock No. 1-East	Nahodishgish		380	380	160	120	1040
303	727324.7017	3949791.594	NMMK0116		Section 28	Church Rock	345	345	160	180	1030
313	713088.9575	3931358.685	NMMK0230			Red Valley	305	305	160	260	1030
43	675625.0988	4063364.064	NA-0828		Teeec Nos Pos		270	270	160	330	1030
68	654980.4724	4083721.454	NA-0911	Moonlight Mine	Ojato		185	185	160	480	1010
253	563426.7712	4090947.511	NA-0200		Teeec Nos Pos		305	305	160	240	1010
284	649691.2697	4092105.341	NA-0931		Mitten #2 - A	Ojato	230	230	160	380	1000
247	568306.296	4089716.647	NA-0210								

TABLE 4. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Combined Score

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
1	675186.7323	4062979.701	NA-0828	Red Wash Mine (Leroy Pettigrew)	Red Valley		290	290	160	260	1000
441	675539.3008	4063154.459	Oak230		Red Valley		290	290	160	260	1000
319	748911.8247	3935551.021	NMMK0016	Black Jack No. 2	Smith Lake		320	320	160	190	990
116	654020.9735	4084376.704	NA-0919A		Teeec Nos Pos		300	300	160	230	990
55	653148.8821	4082703.684	NA-0912		Sweetwater	Teeec Nos Pos	110	110	160	600	980
426	657441.3892	4046129.812	Cov098		Cove		340	340	160	130	970
432	674222.2696	4044178.728	Oak221	Rocky Spring Mine	Red Valley		330	330	160	150	970
			NMMK0221 NMMK0207 NMMK0338	Section 26	Baca/Prewitt	Off Navajo Nation	280	280	160	220	940
364	785498.9391	3914591.292			Red Valley		210	210	160	360	940
484	675478.8317	4065254.228	NA-0809		Sweetwater		110	110	160	560	940
56	652913.2301	4083029.472	NA-0920		Teeec Nos Pos		270	270	160	230	930
69	653869.5846	4084074.69	NA-0919B		Black Mesa		340	340	160	80	920
78	599566.5415	4011707.456	NA-0701		Black Mesa		340	340	160	80	920
79	599360.8545	4011491.272	NA-0701		Baca/Prewitt		300	300	160	150	910
341	776229.187	3916530.177	NMMK0079	Haystack							
120	464069.7649	3973915.352	NA-0123	Charles Huskon No. 19	Coalmine Canyon		265	265	160	220	910
306	723880.9995	3951004.653	NMMK0114	Church Rock No. 2	Coyote Canyon		140	140	160	470	910
246	568453.5378	4089359.488	NA-0210	Monument #1 - A	Ojito		200	200	160	350	910
440	674714.7259	4067910.042	Oak238		Red Valley		235	235	160	270	900
			NA-0925								
61	652061.603	4085737.181	NA-0903		Teeec Nos Pos		195	195	160	350	900
74	597746.9684	4035417.377	NA-0712		Chilchinbeto		230	230	160	270	890
127	465273.5706	3970853.199	NA-0128B	Lemuel Littleman No. 2	Coalmine Canyon		270	270	160	180	880
254	568264.8558	4097457.39	NA-0212	Skyline Mine - East	Ojito		215	215	160	290	880
521	599410.9516	4087654.835	NA-0204	Willie Water Claim	Kayenta		100	100	160	510	870
327	767340.4084	3924651.446	NMMK0055	Elkins	Baca/Prewitt		210	210	160	280	860
			Lookout Point Incline Mine								
6	675280.1669	4065443.211	NA-0804		Red Valley		190	190	160	320	860
209	722234.375	3938446.461	NA-0550	Foutz 3	Church Rock	Iyanbito	300	300	160	90	850
189	638077.8641	4080316.964	NA-0509A		Red Mesa		230	230	160	230	850
59	651458.1361	4085337.542	NA-0904		Teeec Nos Pos	Sweetwater	160	160	160	370	850
60	651864.0043	4085124.856	NA-0916		Teeec Nos Pos	Sweetwater	150	150	160	390	850
326	767252.6317	3924536.263	NMMK0057	Elkins	Baca/Prewitt		200	200	160	280	840
346	779591.667	3920032.303	NMMK0168	Section 5	Baca/Prewitt		280	280	160	120	840
487	676209.1785	4064426.233	NA-0811	King Tutt Point Mines	Red Valley		210	210	160	260	840
191	646817.7473	4085692.884	NA-0507	Toh Atin Mesa Mine	Red Mesa		260	260	160	150	830
64	652865.7351	4086750.839	NA-0929		Teeec Nos Pos		215	215	160	240	830
18	674867.1696	4067877.435	NA-0801		Red Valley		195	195	160	270	820
			Harvey Blackwater Claim (North)								
239	603266.9314	4095460.437	NA-0226		Kayenta		305	305	160	40	810
21	673897.4229	4069409.616	NA-0405		Red Valley		200	200	160	250	810
474	776890.8018	3919899.557	NMMK0152	Section 1	Baca/Prewitt		290	290	160	60	800

TABLE 4. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Combined Score

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
354	785427.1533	3924926.478	NMMK0214	Section 24	Off Navajo Nation		180	180	160	280	800
66	652481.1336	4085201.767	NA-0905		Teeec Nos Pos	Sweetwater	170	170	160	290	790
8	675230.7736	4065679.475	NA-0814		Red Valley		150	150	160	320	780
308	718239.9986	3944063.166	NMMK0124	Section 13	Church Rock		270	270	160	70	770
67	652171.368	4084629.914	NA-0924		Sweetwater	Teeec Nos Pos	160	160	160	290	770
89	556576.9135	3923611.488	NA-0750		Teesto		150	150	160	310	770
135	466680.0409	3968827.294	NA-0138	Boyd Tisi No. 2	Coalmine Canyon		130	130	160	340	760
136	466847.6431	3968694.227	NA-0139	Juan Horse No. 3	Coalmine Canyon		130	130	160	340	760
			NMMK0064								
450	777898.2697	3920913.649	NMMK0259	Febco	Baca/Prewitt		260	260	160	60	740
230	463550.6905	3974715.269	NA-0124B	Kachina No. 6	Coalmine Canyon		205	205	160	170	740
7	675373.4834	4065438.986	NA-0820	Stripped Area 1 of VCA Plot 3	Red Valley		130	130	160	320	740
22	674137.1298	4069918.771	NA-0406	Leroy Mine	Red Valley		160	160	160	260	740
309	717144.0997	3943193.531	NMMK0209	Section 23	Church Rock		255	255	160	60	730
58	650983.3091	4084601.872	NA-0926		Sweetwater	Teeec Nos Pos	130	130	160	310	730
302	770624.2892	3931522.852	NMMK0247	Section 32, 33	Casamero Lake	Baca/Prewitt	175	175	160	190	700
373	462600.1884	3975866.999	Cam018		Coalmine Canyon		215	215	160	110	700
41	675032.8553	4067706.504	NA-0818		Red Valley		135	135	160	270	700
519	562857.8252	4088016.9	NA-0219	Big Four Mine	Ojato		30	30	160	470	690
2	677767.5234	4064255.389	NA-0817		Red Valley		145	145	160	230	680
			Montezuma Creek Mine								
112	653856.7475	4124927.613	NA-0229	Aneth			60	60	160	390	670
179	563337.2473	4089099.863	NA-0220	Sunlight Mine	Ojato		10	10	160	490	670
520	562791.8159	4088112.957	Mon007	Big Four Mine	Ojato		20	20	160	470	670
23	674810.1002	4069681.159	NA-0407	Lower Canyon Mine	Red Valley		130	130	160	250	670
475	772693.8751	3917621.584	NMMK0277	Unknown	Baca/Prewitt		150	150	160	200	660
131	465924.1017	3970197.762	NA-0134	Alice Tolino No. 1 & 3	Coalmine Canyon		120	120	160	260	660
473	774999.3586	3920324.676	NMMK0159	Section 2	Baca/Prewitt		160	160	160	170	650
229	464183.3964	3974232.103	NA-0124C	Jack Daniels No. 1-5	Coalmine Canyon		160	160	160	170	650
3	676948.3571	4064532.564	NA-0816		Red Valley		135	135	160	220	650
435	654650.7829	4076856.314	Swt036		Sweetwater		185	185	160	120	650
248	566068.5476	4083311.172	NA-0233	Alma-Seggin Mine	Ojato		200	200	160	80	640
258	561139.3988	4095100.628	NA-0208		Ojato		20	20	160	440	640
392	558236.802	4092396.983	Mon030	Tract 24 Mine - B	Ojato		100	100	160	280	640
62	651265.6725	4086030.183	NA-0927		Teeec Nos Pos		125	125	160	230	640
260	558896.2776	4099760.648	NA-0211	Mitten 31 Mine	Ojato		60	60	160	350	630
63	650629.6521	4086059.69	NA-0928		Teeec Nos Pos	Sweetwater	100	100	160	270	630
365	786464.69	3913840.445	NMMK0218	Section 25 SEQ	Off Navajo Nation		90	90	160	280	620
464	471302.7485	3951250.962			Off Navajo Nation		210	210	160	40	620
449	637307.012	4080781.187	Swt047		Red Mesa		140	140	160	180	620
9	675410.14	4065555.894	NA-0803	Lookout Point Mines	Red Valley		90	90	160	280	620
			Begay No. 1 and Carrizo No. 1 Mines								
485	676520.0182	4064394.452	NA-0812		Red Valley		120	120	160	220	620
295	660625.7348	4116632.967	MP206	MP206	Teeec Nos Pos		70	70	160	320	620
331	770937.8028	3924350.274	NMMK0076	Haven	Baca/Prewitt		120	120	160	210	610
75	595315.698	4035770.671	NA-0705		Chilchinbeto		155	155	160	140	610

TABLE 4. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Combined Score

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score	
76	595488.4853	4035840.211	NA-0710		Chilchinbeto		155	155	160	140	610	
391	558379.3976	4091960.404	Mon029	Tract 24 Mine - A	Ojato		80	80	160	290	610	
393	562731.2537	4090027.67	Mon013	Daylight Mine	Ojato		40	40	160	370	610	
332	770864.0322	3923592.983	NMMK0136	Red Cap	Baca/Prewitt		110	110	160	220	600	
219	654921.0374	4077167.28	NA-0518		Sweetwater		140	140	160	160	600	
166	461561.6064	3975470.586	NA-0116		Bodaway/Gap		160	160	160	110	590	
359	783441.9436	3928105.177	NMMK0175	Section 10	Off Navajo Nation		130	130	160	170	590	
363	786238.4292	3914499.481	NMMK0219 NMMK0215	NA-0221	Section 25 Open Pit	Off Navajo Nation		130	130	160	170	590
180	561204.9616	4090183.814	NA-0207	Starlight Mine	Ojato		10	10	160	410	590	
476	772647.1783	3917398.631	NMMK0085	Hutton-James	Baca/Prewitt		100	100	160	220	580	
182	565784.6216	4097153.856	NA-0216	Tom Holiday Mine	Ojato		30	30	160	360	580	
255	567345.6134	4097291.437	NA-0212	Mitten #1 'A'	Ojato		60	60	160	300	580	
259	560919.0129	4095243.574	NA-0208		Ojato		20	20	160	380	580	
16	675079.5153	4067151.504	NA-0823	Upper Salt Rock Canyon Mine	Red Valley		90	90	160	240	580	
486	676403.978	4064428.546	Oak125		Red Valley		120	120	160	180	580	
488	676400.5222	4064528.668	NA-0807	Begay No. 1 and Carrizo No. 1 Mines	Red Valley		120	120	160	180	580	
333	771008.1337	3923207.286	NMMK0345	Yucca	Baca/Prewitt		70	70	160	270	570	
351	782121.4178	3920675.631	NMMK0090	Junior	Baca/Prewitt		150	150	160	100	560	
384	460538.2081	3963262.407	Cam051	Cameron			190	190	0	180	560	
134	466413.5635	3969783.509	NA-0137	Yazzie No. 312	Coalmine Canyon		70	70	160	260	560	
358	783940.5864	3928016.808	NMMK0051	Dysart No. 1	Off Navajo Nation		85	85	160	230	560	
517	566389.4477	4097242.836	NA-0234	Ojato			30	30	160	340	560	
518	566373.437	4097189.932	Mon077	Ojato			30	30	160	340	560	
5	677921.8217	4065216.527	NA-0824	Red Valley			60	60	160	280	560	
217	654591.9504	4077229.666	NA-0506	Sweetwater			130	130	160	140	560	
218	655100.8349	4077273.265	NA-0506	Sweetwater			120	120	160	160	560	
402	595165.0982	4036107.246	Blk002	Chilchinbeto			125	125	160	140	550	
123	467400.934	3967869.78	NA-0141	Juan Horse No. 4	Coalmine Canyon		70	70	160	250	550	
355	783986.2122	3925285.004	NMMK0208	Section 23	Off Navajo Nation		50	50	160	290	550	
4	677272.6583	4064984.116	NA-0826	Red Valley			80	80	160	230	550	
340	778435.461	3921542.028	NMMK0258	Silver Spur	Baca/Prewitt		150	150	160	80	540	
356	783260.6931	3925493.727	NMMK0206	Section 22	Baca/Prewitt	Off Navajo Nation	50	50	160	280	540	
312	709247.7446	3936045.163	NMMK0083	Hogback	Church Rock		120	120	160	140	540	
257	561387.0629	4094741.836	NA-0202		Ojato		0	0	160	380	540	
31	674347.8351	4058162.629	NA-0825	Upper Red Wash Mine	Red Valley		120	120	160	140	540	
250	567041.8302	4082472.926	NA-0209	Black Rock Mine	Ojato		165	165	160	40	530	
10	676269.3984	4065400.996	NA-0810	Begay No. 2 Mine	Red Valley		90	90	160	190	530	
400	594721.1456	4035893.829	Blk001	Chilchinbeto			110	110	160	140	520	
401	594843.241	4035986.184	Blk001a	Chilchinbeto			110	110	160	140	520	
226	557495.8253	4095752.276	NA-0218	Monument #3 Mine	Ojato		70	70	160	220	520	
293	626929.3256	4122940.261	NA-0238		Red Mesa		0	0	160	360	520	

TABLE 4. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Combined Score

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
12	675207.1043	4066282.075	NA-0827	Williams Point Mine	Red Valley		40	40	160	280	520
256	567236.5698	4097271.019	NA-0212	Mitten #1 'B'	Ojato		20	20	160	310	510
513	565948.6862	4085527.311	NA-0222		Ojato		115	115	160	120	510
477	675698.1324	4065308.662	NA-0805	Shadyside Incline	Red Valley		60	60	160	230	510
325	764238.1039	3927845.251	NMMK0257	Silver Bit	Baca/Prewitt		60	60	160	220	500
314	713779.2141	3930137.653	NMMK0047	Diamond No. 2	Church Rock		105	105	160	130	500
133	466256.5239	3970049.88	NA-0135	Evans Huskon No. 2	Coalmine Canyon		40	40	160	260	500
514	565886.8037	4085623.096	Mon011	Naschoy Mine	Ojato		115	115	160	110	500
15	675061.9926	4067204.75	NA-0802	Franks Point Mine	Red Valley		70	70	160	200	500
132	466457.3466	3970174.881	NA-0136	Yazzie No. 101	Coalmine Canyon		40	40	160	250	490
104	656784.7926	4046333.589	NA-0320		Cove		100	100	160	130	490
261	557923.0262	4100236.512	NA-0211	Taylor Reid Mine - B	Ojato		0	0	160	330	490
516	558227.301	4100053.696	NA-0211	C-3 Mine	Ojato		20	20	160	290	490
30	677509.9124	4063491.002	NA-0817	Red Wash Mine (Hosteen S. Begay)	Red Valley		80	80	160	170	490
				Harvey Blackwater Claim (South)	Kayenta		80	80	160	160	480
238	602058.5286	4093881.434	NA-0226	Black Rock Mine	Ojato		140	140	160	40	480
249	567208.8139	4082356.892	NA-0209		Beclabito		100	100	160	110	470
46	675410.9134	4075304.09	NA-0403		Black Mesa		130	130	160	50	470
406	601916.4062	4014181.74	Bik029		Chilchinbeto		90	90	160	130	470
73	598520.5545	4036429.885	NA-0711		Kayenta		70	70	160	170	470
240	602052.7298	4093649.566	NA-0226		Taylor Reid Mine - A	Ojato	10	10	160	290	470
515	558085.7775	4100122.195	NA-0211		Red Mesa		130	130	160	50	470
220	638312.6167	4089250.339	NA-0508B		Beclabito		100	100	160	100	460
443	675575.989	4075219.957	Bec060		Cameron		25	25	160	250	460
382	464743.1308	3966845.222	Cam043		Section 25 SEQ	Off Navajo Nation	10	10	160	280	460
368	786745.502	3913623.861	NMMK0218		Cameron		110	110	160	70	450
383	462786.9484	3961563.503	Cam052		Big Chief Mine	Ojato	0	0	160	290	450
251	564564.4125	4088187.865	NA-0206		Red Valley		50	50	160	190	450
11	675996.6045	4065610.429	NA-0813		Pat	Baca/Prewitt	90	90	160	100	440
350	782188.0671	3920165.022	NMMK0123		Indian Wells		50	50	160	180	440
291	586689.4184	3925872.94	NA-0751		Section 30	Off Navajo Nation	25	25	160	230	440
370	787693.8767	3913452.753	NMMK0235		Lone Star Mine	Red Valley	30	30	160	220	440
27	674370.1891	4070911.109	NA-0410		Mac No. 2	Smith Lake	70	70	160	140	440
320	749612.5514	3935047.98	NMMK0098		Section 15	Off Navajo Nation	40	40	160	190	430
357	783493.0733	3925959.336	NMMK0183		Teeec Nos Pos		80	80	160	110	430
283	654722.8086	4089392.228	NA-0930		Eiwood Canyon No. 1	Coalmine Canyon	0	0	160	260	420
130	465967.3805	3970553.747	NA-0131a		John Yazzie #1 Mine	Kayenta	0	0	160	260	420
242	599099.2505	4088647.312	NA-0225		Red Mesa		70	70	160	120	420
448	636621.2696	4084010.859	Swt048		Red Valley		50	50	160	160	420
24	673557.5466	4070513.055	NA-0408		Montezuma No. 1	Cameron	10	10	160	230	410
176	465755.8613	3966572.629	NA-0107		Section 30	Off Navajo Nation	10	10	160	230	410
371	787417.5418	3913244.011	NMMK0235		Section 30	Off Navajo Nation	10	10	160	230	410
372	787752.0668	3913096.866	NMMK0235		Hazel Mine	Red Valley	30	30	160	190	410
14	677026.2043	4066110.726	NA-0819b		Salt Canyon Mines	Red Valley	10	10	160	230	410
17	675634.608	4067193.06	NA-0818			Red Valley	30	30	160	190	410
26	673909.2667	4070727.296	NA-0409			Red Valley	30	30	160	190	410

TABLE 4. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Combined Score

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score	
28	674902.7746	4071377.357	NA-0411	Cottonwood Butte Mine	Red Valley		30	30	160	190	410	
289	675527.6451	4066868.6	NA-0823	Lower Salt Rock Canyon Mine	Red Valley		30	30	160	190	410	
265	675086.4628	4072721.114	NA-0413		Beclabito		30	30	160	180	400	
237	607616.5889	4087761.794	NA-0213		Dennehotso		60	60	160	120	400	
367	786991.7009	3913675.124	NMMK0218	Section 25 SEQ	Off Navajo Nation		10	10	160	220	400	
369	787013.1713	3913314.176	NMMK0218	Section 25 SEQ	Off Navajo Nation		10	10	160	220	400	
77	602866.0918	4026847.846	NA-0700		Rough Rock		30	30	160	180	400	
436	651791.8692	4066796.027	Swt018		Sweetwater		120	120	160	0	400	
324	763676.664	3927820.467	NMMK0255	Silver Bit	Baca/Prewitt		10	10	160	210	390	
266	675240.041	4072620.541	NA-0413		Beclabito		30	30	160	170	390	
452	463560.0573	3992325.358	7	A & B No. 13	Bodaway/Gap		80	80	160	70	390	
399	567653.352	4081215.797	Mon019	Salty Mine	Kayenta		100	100	160	30	390	
13	676633.0239	4066117.87	NA-0819a	Salt Canyon Mines	Red Valley		0	0	160	230	390	
337	773996.5843	3921849.778	NMMK0249	Section 34	Baca/Prewitt		0	0	160	220	380	
349	781906.115	3920364.596	NMMK0123	Pat	Baca/Prewitt		60	60	160	100	380	
47	676616.4687	4074726.029	NA-0404		Beclabito		20	20	160	180	380	
421	656895.6255	4045919.069	Cov099	Frank Jr. Mine	Cove		50	50	160	120	380	
336	769226.3695	3929188.047	NMMK0002	Alta	Baca/Prewitt		20	20	160	170	370	
129	466302.037	3970690.061	NA-0131b	Max Johnson No. 9	Coalmine Canyon		0	0	160	210	370	
236	468189.2861	3966390.892	NA-0111		Coalmine Canyon		0	0	160	210	370	
394	560939.1846	4084660.428	Mon006	Joe Rock Mine	Ojato		50	50	160	110	370	
32	674714.0514	4057875.959	NA-0825	Upper Red Wash Mine	Red Valley		35	35	160	140	370	
348	781949.1027	3920177.964	NMMK0041	Dakota	Baca/Prewitt		50	50	160	100	360	
121	463818.8588	3977642.398	NA-0113	Jeepster No. 1	Coalmine Canyon		60	60	160	80	360	
105	655884.7467	4045539.447	NA-0319		Cove		20	20	160	160	360	
505	656149.919	4044893.352	NA-0317		Cove		20	20	160	160	360	
506	656132.8528	4044993.203	Cov086		Cove		20	20	160	160	360	
507	656325.4218	4045013.243	Cov087		Cove		20	20	160	160	360	
508	656230.3764	4045048.336	NA-0317		Cove		20	20	160	160	360	
509	656493.2842	4044508.997	NA-0317		Cove		20	20	160	160	360	
360	786341.5936	3915567.371	NMMK0019	Bobcat	Off Navajo Nation		40	40	160	120	360	
366	786785.2809	3913831.476	NMMK0218	Section 25 SEQ	Off Navajo Nation		10	10	160	180	360	
282	666857.8326	4082514.284	NA-0402		Teeec Nos Pos		10	10	160	180	360	
290	442824.7467	4058163.11	NA-0259		Bodaway/Gap		0	0	160	190	350	
300	637823.1606	4006096.134	1	Zhealy Tso, N. Part Parcel	Zhealy Tso	Chinle		80	80	160	30	350
510	656401.9528	4044392.613	NA-0301	Frank No. 1 Mines	Cove		20	20	160	150	350	
362	786805.8549	3914549.2	NMMK0216	Section 25	Off Navajo Nation		10	10	160	170	350	
187	642669.3214	4063917.85	NA-0500		Sweetwater		90	90	160	10	350	
352	781738.1018	3920112.975	NMMK0164	Section 4	Baca/Prewitt		40	40	160	100	340	
269	675269.2962	4072927.788	NA-0414		Beclabito		0	0	160	180	340	
270	674443.6089	4074133.218	NA-0418		Beclabito		20	20	160	140	340	
281	676830.4013	4074621.651	NA-0419		Beclabito		20	20	160	140	340	
101	656625.3875	4043653.208	NA-0314		Cove		30	30	160	120	340	

TABLE 4. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Combined Score

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
190	637966.2229	4089079.969	NA-0508A		Red Mesa		70	70	160	40	340
216	650565.6716	4071550.28	NA-0504		Sweetwater		80	80	160	20	340
334	771093.8765	3928279.598	NMMK0058	Evelyn	Baca/Prewitt		0	0	160	170	330
271	674864.4734	4073536.651	NA-0417		Beclabito		20	20	160	130	330
272	674554.3755	4074048.275	NA-0418		Beclabito		20	20	160	130	330
442	674826.8749	4073754.03	Bec054		Beclabito		20	20	160	130	330
118	464177.2518	3995730.463	NA-0105a	Henry Sloan No. 1	Bodaway/Gap		75	75	160	20	330
159	472628.2836	3945454.616	NA-0194	Julius Chee No. 3	Coalmine Canyon		30	30	160	110	330
106	656275.7607	4044209.152	NA-0316	Frank No. 1 Mines	Cove		20	20	160	130	330
107	656025.8516	4044076.131	NA-0316		Cove		20	20	160	130	330
415	655685.9535	4043963.235	Cov230		Cove		20	20	160	130	330
25	673620.2997	4070761.263	NA-0400	Syracuse Mine	Red Valley		0	0	160	170	330
335	769994.7902	3928419.07	NMMK0071	Frances	Baca/Prewitt		0	0	160	160	320
156	474301.0321	3945886.887	NA-0196B	RAMCO No. 24	Coalmine Canyon		30	30	160	100	320
233	472583.4407	3947750.712	NA-0110A	Max Johnson No. 7	Coalmine Canyon		30	30	160	100	320
374	462973.4243	3978285.946	Cam012		Coalmine Canyon		40	40	160	80	320
375	467069.57	3970972.412	Cam033		Coalmine Canyon		0	0	160	160	320
423	659916.8195	4042156.015	Cov026		Cove		30	30	160	100	320
469	656274.6249	4045727.425	NA-0319		Cove		20	20	160	120	320
85	603427.0984	4016376.105	NA-0703		Black Mesa		60	60	160	30	310
170	465491.1967	3957766.93	NA-0164	Taylor Reid No. 2	Cameron		10	10	160	130	310
155	474845.2969	3945332.523	NA-0196A	RAMCO No. 24	Coalmine Canyon		40	40	160	70	310
294	660473.6567	4141823.329	W027031	PETE 6 & 7	Aneth	Off Navajo Nation	10	10	160	120	300
279	669623.153	4078646.608	NA-0422		Beclabito		0	0	160	140	300
117	464165.9126	3995442.087	NA-0105b	Henry Sloan No. 1	Bodaway/Gap		60	60	160	20	300
157	473390.2962	3944517.865	NA-0197	Charles Huskon No. 4 & Paul Huskie No. 3	Coalmine Canyon		40	40	160	60	300
376	468978.27	3966460.51	Cam042		Coalmine Canyon		0	0	160	140	300
94	659573.0011	4043490.417	NA-0310A		Cove		0	0	160	140	300
100	657548.9453	4044313.217	NA-0315		Cove		10	10	160	120	300
241	599124.7915	4089127.132	NA-0224		Kayenta		0	0	160	140	300
339	774340.6732	3921727.033	NMMK0096	Lost Mine	Baca/Prewitt		0	0	160	130	290
267	675147.6223	4073320.477	NA-0416		Beclabito		0	0	160	130	290
268	675200.6272	4073175.053	NA-0415		Beclabito		0	0	160	130	290
137	466901.2931	3964216.321	NA-0149d	Charles Huskon No. 3	Cameron		10	10	160	110	290
453	464521.9719	3957164.029	67a	Section 1 Lease	Cameron	Off Navajo Nation	10	10	160	110	290
		Zhealy Tso, S. Part Parcel		Zhealy Tso	Chinle		50	50	160	30	290
297	637512.737	4005384.335	1	Zhealy Tso	Coalmine Canyon		45	45	160	40	290
92	462645.491	3978831.722	NA-0104	Charles Huskon No. 6	Cove		25	25	160	80	290
417	656635.6158	4042454.595	Cov053		Iyanbito		0	0	160	130	290
311	726723.6729	3937368.298	NMMK0341	Westwater	Section 1 Lease	Off Navajo Nation	10	10	160	110	290
454	465099.2736	3956058.264	67b	Black Point-Murphy Group	Off Navajo Nation		50	50	160	30	290
463	471524.6631	3951793.161	88	Boot Jack Mine	Ojato		20	20	160	90	290
252	562187.4364	4084802.223	NA-0201								

TABLE 4. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Combined Score

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
451	460453.8574	3989868.083	8	A & B No. 7	Bodaway/Gap		40	40	160	40	280
158	472939.0906	3945041.199	NA-0195	Julius Chee No. 2	Coalmine Canyon		30	30	160	60	280
235	474000.3944	3944574.753	NA-0197B	Charles Huskon No. 18	Coalmine Canyon		30	30	160	60	280
98	657323.8352	4042708.56	NA-0313		Cove		25	25	160	70	280
99	657228.7769	4045105.699	NA-0318		Cove		0	0	160	120	280
102	656893.4238	4045388.566	NA-0318		Cove		0	0	160	120	280
103	656747.6838	4045256.698	NA-0302	Mesa V Mine	Cove		0	0	160	120	280
287	658315.9563	4044231.308	NA-0324		Cove		0	0	160	120	280
420	657109.0398	4044421.774	Cov068		Cove		0	0	160	120	280
424	656886.6743	4043003.918	Cov052		Cove		25	25	160	70	280
493	655275.4196	4052572.782	NA-0339	East Mesa Mines	Red Valley		0	0	160	120	280
494	655302.931	4052787.463	Cov110	East Mesa Mines	Red Valley		0	0	160	120	280
184	653025.2184	4073744.78	NA-0505A		Sweetwater		50	50	160	20	280
338	774607.3627	3921836.715	NMMK0096	Lost Mine	Baca/Prewitt		0	0	160	110	270
347	780925.3701	3916918.664	NMMK0138	Red Point	Baca/Prewitt		10	10	160	90	270
48	677623.0196	4074283.65	NA-0404		Beclabito		0	0	160	110	270
444	677120.6462	4074394.793	Bec064		Beclabito		0	0	160	110	270
445	677754.5144	4074438.997	Bec068		Beclabito		0	0	160	110	270
163	460749.9584	3975585.796	NA-0114AAB		Bodaway/Gap		0	0	160	110	270
164	460587.3076	3975569.26	NA-0114AAC		Bodaway/Gap		0	0	160	110	270
165	460860.5774	3975316.227	NA-0114AAA		Bodaway/Gap		0	0	160	110	270
140	465908.0955	3964185.697	NA-0149A	Charles Huskon No. 3	Cameron		0	0	160	110	270
			NA-0300 NA-0310B NA-0310C								
93	659194.8889	4043344.766	NA-0310D		Cove		0	0	160	110	270
361	786877.25	3915446.294	NMMK0018	Blue Peak	Off Navajo Nation		10	10	160	90	270
185	653402.5858	4073568.298	NA-0505B		Sweetwater		50	50	160	10	270
186	653261.0992	4073327.452	NA-0505C		Sweetwater		50	50	160	10	270
29	671729.4403	4074252.039	NA-0412	Upper Red Canyon Mine	Beclabito		0	0	160	100	260
49	672733.7587	4078275.177	NA-0401	Copper Mine	Beclabito		0	0	160	100	260
447	672279.3173	4078189.821	Bec070		Beclabito		0	0	160	100	260
87	604689.5467	4018612.543	NA0709A		Black Mesa		0	0	160	100	260
88	604979.7355	4018451.479	NA0709C		Black Mesa		0	0	160	100	260
111	723860.233	3937632.795	NA-0552	Section 3	Iyanbito		0	0	160	100	260
489	671182.4011	4074426.729	NA-0425	Toni Tuc No. 1 Mine	Red Valley	Beclabito	0	0	160	100	260
490	671293.9623	4074466.372	Bec002	Toni Tuc No. 1 Mine	Red Valley	Beclabito	0	0	160	100	260
81	601572.8452	4007799.181	NA-0702		Tselani/Cottonwood		10	10	160	80	260
84	604425.3765	4009623.666	NA-0708		Tselani/Cottonwood		40	40	160	20	260
404	604351.9893	4009154.835	Blk022		Tselani/Cottonwood		40	40	160	20	260
280	670095.0962	4078924.894	NA-0421		Beclabito		0	0	160	90	250

TABLE 4. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Combined Score

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
162	459624.834	3975733.337	NA-0114DAA		Bodaway/Gap		0	0	160	90	250
138	466207.2095	3963823.969	NA-0149c	Charles Huskon No. 3	Cameron		0	0	160	90	250
167	467082.6518	3958512.704	NA-0158B	Charles Huskon No. 8	Cameron		0	0	160	90	250
169	467570.4031	3958167.69	NA-0159	Boyd Tisi No. 1	Cameron		0	0	160	90	250
		Zhealy Tso, W. Part Parcel 1	Zhealy Tso								
299	637297.2201	4005514.831		Chinle			30	30	160	30	250
96	658103.6381	4042557.829	NA-0312	Cove			10	10	160	70	250
97	658124.0382	4042161.766	NA-0312	Cove			10	10	160	70	250
416	656473.0069	4042872.314	Cov054	Cove			10	10	160	70	250
418	658250.4359	4042130.567	Cov033	Cove			10	10	160	70	250
425	657269.5548	4043077.717	Cov000	Cove			10	10	160	70	250
40	654497.611	4051663.346	NA-0338	West Mesa Mine	Round Rock	Red Valley	0	0	160	90	250
278	668610.9648	4078369.995	NA-0423	Beclabito	Teeec Nos Pos		0	0	160	80	240
446	669029.921	4078287.563	Bec090	Beclabito			0	0	160	80	240
86	604529.3675	4018239.225	NA0709B	Black Mesa			0	0	160	80	240
139	466286.4282	3964044.714	NA-0149b	Charles Huskon No. 3	Cameron		0	0	160	80	240
		Zhealy Tso, W. Part Parcel 1	Zhealy Tso								
232	468787.7125	3959732.47	NA-0155B	Charles Huskon No. 10	Cameron		10	10	160	60	240
154	474887.8094	3944217.03	NA-0198	Emmet Lee No. 3	Coalmine Canyon		10	10	160	60	240
234	472286.1535	3948685.653	NA-0110B	Amos Chee No. 8	Coalmine Canyon		10	10	160	60	240
212	651591.5636	4065355.625	NA-0515	Sweetwater			40	40	160	0	240
172	461719.6782	3994422.391	NA-0113		Bodaway/Gap		25	25	160	20	230
142	467482.9627	3961303.457	NA-0154	Yazzie No. 102	Cameron		0	0	160	70	230
143	467525.4417	3961581.563	NA-0153	Yazzie No. 102	Cameron		0	0	160	70	230
		Zhealy Tso, W. Part Parcel 1	Zhealy Tso								
298	637307.1062	4005587.988		Chinle			20	20	160	30	230
285	658543.2536	4042710.075	NA-0323	Cove			0	0	160	70	230
286	658839.6746	4042556.878	NA-0321	Cove			0	0	160	70	230
262	554920.0974	4090997.763	NA-0205	Tract 11E	Olijato		0	0	160	70	230
511	656276.9622	4040807.137	NA-0329		Round Rock		0	0	160	70	230
178	461826.7995	3997666.546	NA-0103B	Earl Huskon No. 1	Bodaway/Gap		20	20	160	20	220
		Zhealy Tso, W. Part Parcel 1	Zhealy Tso								
141	468219.0491	3959655.69	NA-0155A	Charles Huskon No. 10	Cameron		0	0	160	60	220
122	469922.5101	3964445.755	NA-0148	Jack Huskon No. 3	Coalmine Canyon	Cameron	0	0	160	60	220
231	469726.8822	3973788.803	NA-0121	Evans Huskon No. 34	Coalmine Canyon		0	0	160	60	220
95	658223.2241	4041549.936	NA-0311	Cove			0	0	160	60	220
288	658934.9785	4042159.292	NA-0322	Cove			0	0	160	60	220
419	659403.6561	4042638.13	Cov027	Cove			0	0	160	60	220
395	576750.0448	4088103.134	Mon0076a	Olijato			0	0	160	60	220
203	655016.8821	4041834.858	NA-0331		Round Rock		0	0	160	60	220
204	655111.6311	4041409.648	NA-0330		Round Rock		0	0	160	60	220
207	657214.2319	4039031.759	NA-0343		Round Rock		0	0	160	60	220
428	657067.1031	4039187.56	Cov216	Knife Edge Mesa Mine	Round Rock		0	0	160	60	220
512	656489.4687	4040827.175	NA-0329		Round Rock		0	0	160	60	220
44	677192.0142	4034691.713	NA-0610		Sanostee		20	20	160	20	220
168	466889.5414	3958912.745	NA-0158A	Charles Huskon No. 8	Cameron		0	0	160	50	210
422	658939.5601	4040931.275	Cov030	Cove			0	0	160	50	210

TABLE 4. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Combined Score

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
227	554047.6725	4100617.152	NA-0236	Tract 7	Ojato		0	0	160	50	210
205	656836.4725	4040738.48	NA-0327		Round Rock		0	0	160	50	210
206	656634.3771	4040665.664	NA-0328		Round Rock		0	0	160	50	210
429	658465.1018	4039797.674	Cov226	Cisco Mine	Round Rock		0	0	160	50	210
467	658038.268	4039551.928	NA-0326	Joleo Mine	Round Rock		0	0	160	50	210
183	463398.767	3998127.758	NA-0102	Paul Huskie No.21	Bodaway/Gap		10	10	160	20	200
144	470492.9854	3956954.728	NA-0166	Charles Huskon No. 11	Off Navajo Nation		10	10	160	20	200
385	467886.9093	3959487.141	Cam056		Cameron		0	0	160	40	200
378	471653.1189	3957818.335	Cam062		Coalmine Canyon		10	10	160	20	200
263	654166.727	4091532.854	NA-0203	Tract 11	Ojato		0	0	160	40	200
201	654371.8668	4042086.998	NA-0333		Round Rock		0	0	160	40	200
202	654384.017	4041853.516	NA-0332		Round Rock		0	0	160	40	200
208	659207.0071	4039702.283	NA-0325	Camp Mine	Round Rock		0	0	160	40	200
211	652153.8509	4062497.854	NA-0513		Sweetwater		20	20	160	0	200
274	652011.1486	4059005.796	NA-0511		Sweetwater		20	20	160	0	200
275	651665.9561	4058822.603	NA-0511		Sweetwater		20	20	160	0	200
82	602743.3201	4008158.383	NA-0704		Tselani/Cottonwood		0	0	160	40	200
83	603889.3724	4008310.071	NA-0707		Tselani/Cottonwood		0	0	160	40	200
403	603838.1842	4008103.927	Blk020		Tselani/Cottonwood		0	0	160	40	200
405	602773.338	4006455.4	Blk019b		Tselani/Cottonwood		0	0	160	40	200
91	446398.9385	4073333.514	NA-0101	Jimmie Boone B	Bodaway/Gap		0	0	160	30	190
161	459352.8332	3976090.392	NA-0114DAB		Bodaway/Gap		0	0	160	30	190
146	473372.2984	3952587.62	NA-0187	Jackpot No. 5	Coalmine Canyon		0	0	160	30	190
147	473078.081	3952699.699	NA-0186	Jackpot No. 1	Coalmine Canyon		0	0	160	30	190
148	472484.3683	3953351.234	NA-0180	Yazzie No. 2	Coalmine Canyon		0	0	160	30	190
149	472143.7397	3953395.939	NA-0179	Yazzie No. 1	Coalmine Canyon		0	0	160	30	190
153	472919.6645	3954770.864	NA-0174	RAMCO No. 20	Coalmine Canyon		0	0	160	30	190
173	472363.6568	3952955.56	NA-0184	Charles Huskon No. 17	Coalmine Canyon		0	0	160	30	190
174	472276.5032	3952587.93	NA-0109	Jackpot No. 40	Coalmine Canyon		0	0	160	30	190
458	470121.6234	3954099.618	71b	Section 9 Lease	Off Navajo Nation		0	0	160	30	190
459	470391.8115	3953629.864	71c	Section 9 Lease	Off Navajo Nation		0	0	160	30	190
222	578103.6473	4091205.565	NA-0223		Ojato		0	0	160	30	190
34	654576.3359	4057405.222	NA-0308	Cove Mesa Mines (Cato Sells)	Red Valley		10	10	160	10	190
35	654723.7075	4057632.023	NA-0341	Cove Mesa Mines (Cato Sells)	Red Valley		10	10	160	10	190
433	675134.1186	4037437.917	San018		Red Valley		0	0	160	30	190
197	651277.1462	4046559.208	NA-0337	Mexican Cry Mine	Round Rock		0	0	160	30	190
198	651259.0464	4046345	NA-0337	Mexican Cry Mine	Round Rock		0	0	160	30	190
199	652572.976	4045323.189	NA-0335		Round Rock		0	0	160	30	190

TABLE 4. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Combined Score

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
200	654214.0626	4042651.127	NA-0334	Jimmie King No. 9 Mine	Round Rock		0	0	160	30	190
427	652371.079	4045295.878	Cov198		Round Rock		0	0	160	30	190
468	652167.9776	4046047.142	NA-0336	Hall Mine	Round Rock		0	0	160	30	190
407	678655.6266	4029300.23	San001		Sanostee		10	10	160	10	190
171	462142.6949	3995787.164	NA-0112		Bodaway/Gap		0	0	160	20	180
177	463384.9437	3997713.999	NA-0103A	Earl Huskon No. 3	Bodaway/Gap		0	0	160	20	180
456	470449.4317	3956208.069	Cam068b		Cameron		0	0	160	20	180
90	472690.2481	3955070.607	NA-0172a	RAMCO No. 21	Coalmine Canyon		0	0	160	20	180
145	472283.0459	3957605.287	NA-0163	Ryan No. 1	Coalmine Canyon		0	0	160	20	180
150	472753.9546	3955304.063	NA-0172B	RAMCO No. 21	Coalmine Canyon		0	0	160	20	180
152	473408.5542	3954697.395	NA-0175	Ryan No. 2	Coalmine Canyon		0	0	160	20	180
243	583219.684	4083894.037	NA-0235		Kayenta		0	0	160	20	180
244	583663.6496	4083987.856	NA-0235		Kayenta		0	0	160	20	180
457	470689.6917	3955130.448	71a	Section 9 Lease	Off Navajo Nation		0	0	160	20	180
				Cove Mesa Mines (AEC Lease Plot 7)							
39	653993.2279	4056047.842	NA-0306		Sweetwater		0	0	160	20	180
210	650038.7368	4062519.182	NA-0512		Sweetwater		10	10	160	0	180
214	653843.0961	4067669.901	NA-0516		Sweetwater		10	10	160	0	180
215	653900.5133	4067850.214	NA-0516		Sweetwater		10	10	160	0	180
				Cove Mesa Mines (AEC Lease Plot 7)							
434	654581.0547	4056009.223	Cov178		Sweetwater	Red Valley	0	0	160	20	180
437	649238.3635	4059315.129	Swt002		Sweetwater		10	10	160	0	180
438	649584.4204	4059130.176	Swt003		Sweetwater		10	10	160	0	180
				Cove Mesa Mines (AEC Lease Plot 7)							
497	654708.76	4055542.866	NA-0304		Sweetwater		0	0	160	20	180
				Cove Mesa Mines (AEC Lease Plot 7)							
498	654379.8856	4055487.79	NA-0305		Sweetwater		0	0	160	20	180
				Cove Mesa Mines (AEC Lease Plot 7)							
499	654612.5719	4055177.034	NA-0340		Sweetwater		0	0	160	20	180
				Cove Mesa Mines (AEC Lease Plot 7)							
500	654756.2938	4055288.177	Cov122		Sweetwater		0	0	160	20	180
				Cove Mesa Mines (AEC Lease Plot 7)							
502	654867.8475	4055394.978	Cov121		Sweetwater		0	0	160	20	180
				Cove Mesa Mines (AEC Lease Plot 7)							
503	654505.0162	4055117.902	Cov125		Sweetwater		0	0	160	20	180
151	473269.7752	3955072.615	NA-0173	RAMCO No. 22	Coalmine Canyon		0	0	160	10	170
377	472460.8206	3959601.12	Cam057		Coalmine Canyon		0	0	160	10	170
221	579315.6355	4091064.568	NA-0223		Ojato		0	0	160	10	170
386	547558.997	4095844.967	Mon061	Alfred Mills	Ojato		0	0	160	10	170
387	547828.677	4095845.768	Mon062	Tract 12	Ojato		0	0	160	10	170
388	545529.482	4102570.481	Mon064	Horsetrail	Ojato		0	0	160	10	170
390	550207.8347	4093114.129	Mon060		Ojato		0	0	160	10	170
397	546359.2666	4097297.891	Mon063	Tract 15	Ojato	Shonto	0	0	160	10	170
				Cove Mesa Mines (AEC Lease Plot 7)	Red Valley		0	0	160	10	170
430	654616.0674	4056255.061	Cov177								

TABLE 4. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Combined Score

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
431	654662.3785	4056695.845	Cov175	Cove Mesa Mines (AEC Lease Plot 7)	Red Valley		0	0	160	10	170
501	654593.3923	4056385.985	Cov176	Cove Mesa Mines (AEC Lease Plot 7)	Red Valley		0	0	160	10	170
45	680194.2202	4031361.651	NA-0601		Sanostee		0	0	160	10	170
192	678669.0002	4031981.215	NA-0603		Sanostee		0	0	160	10	170
193	679149.7235	4032557.901	NA-0612		Sanostee		0	0	160	10	170
194	679944.0641	4033863.392	NA-0613		Sanostee		0	0	160	10	170
195	680413.5119	4033097.882	NA-0608		Sanostee		0	0	160	10	170
408	678606.5789	4033379.62	San017		Sanostee		0	0	160	10	170
409	678773.1348	4032135.95	San010		Sanostee		0	0	160	10	170
410	678588.575	4031302.753	San008		Sanostee		0	0	160	10	170
411	679215.1498	4030859.417	San002		Sanostee		0	0	160	10	170
412	678987.3627	4031723.997	San007	Enos Johnson Mine	Sanostee		0	0	160	10	170
413	679931.4709	4031765.399	San006		Sanostee		0	0	160	10	170
414	679369.747	4031004.19	San003		Sanostee		0	0	160	10	170
465	679214.5731	4032180.665	NA-0611		Sanostee		0	0	160	10	170
466	679420.8216	4032235.423	NA-0604		Sanostee		0	0	160	10	170
36	653896.6336	4057674.522	NA-0308	Cove Mesa Mines (Cato Sells)	Sweetwater		0	0	160	10	170
37	653644.1173	4057273.626	NA-0308	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		0	0	160	10	170
38	654071.6347	4057186.655	NA-0308	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		0	0	160	10	170
495	654263.555	4056108.253	NA-0309	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		0	0	160	10	170
496	654154.3383	4056826.398	NA-0307	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		0	0	160	10	170
504	654319.9145	4056362.696	NA-0303	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater	Red Valley	0	0	160	10	170
398	577628.1254	4086361.034	Mon0076c		Kayenta		0	0	160	0	160
196	549168.8558	4122560.157	UTAML	Whirlwind Mine	Ojato		0	0	160	0	160
264	547250.9498	4094662.483	NA-0228	Tract 14	Ojato		0	0	160	0	160
33	659898.9691	4066432.122	NA-0342	Tohe Thlany Begay Mine	Red Valley		0	0	160	0	160
439	659790.5427	4066323.002	Cov192		Red Valley		0	0	160	0	160
213	653091.8291	4063502.303	NA-0514	Mildred Mine	Sweetwater		0	0	160	0	160
273	650112.7248	4059243.632	NA-0510		Sweetwater		0	0	160	0	160
396	551777.4219	4082997.151	Mon065		Ojato		20	20	0	40	80
379	470131.0491	3967485.728	Cam042		Coalmine Canyon		0	0	0	60	60
380	475203.4153	3958448.149	Cam060		Coalmine Canyon		0	0	0	10	10
381	475871.3225	3958745.394	Cam061		Coalmine Canyon		0	0	0	10	10

DISCLAIMER: The method used to prioritize the AUM sites is based on a limited subset of the locational-distance criteria in the HRS. It does not include many of the other criteria and factors built into the HRS model. Therefore, the scores derived under this model cannot be considered to be reflective of an HRS score, but are meant only to begin the process of prioritization based on distance from the AUM source.

TABLE 5. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Chapter

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
112	653856.7475	4124927.613	NA-0229	Montezuma Creek Mine	Aneth		60	60	160	390	670
294	660473.6567	4141823.329	W027031	PETE 6 & 7	Aneth	Off Navajo Nation	10	10	160	120	300
			NMMK0014 NMMK0073 NMMK0200	Billy the Kid	Baca/Prewitt		1705	1705	160	470	4040
329	769073.2552	3924992.253	NMMK0081	Haystack	Baca/Prewitt		910	910	160	170	2150
344	777590.3945	3915767.031	NMMK0195	Section 18	Baca/Prewitt		660	660	160	180	1660
343	777886.451	3916315.588	NMMK0141	Red Top	Baca/Prewitt		450	450	160	340	1400
330	769756.7447	3924860.888	NMMK0140	Red Top	Baca/Prewitt		420	420	160	390	1390
328	768103.5275	3925379.282	NMMK0080	Haystack	Baca/Prewitt		455	455	160	130	1200
342	776953.5533	3916247.42	NMMK0077	Haystack	Baca/Prewitt		410	410	160	160	1140
345	776094.4428	3917172.421	NMMK0221 NMMK0207 NMMK0338	Section 26	Baca/Prewitt	Off Navajo Nation	280	280	160	220	940
364	785498.9391	3914591.292	NMMK0079	Haystack	Baca/Prewitt		300	300	160	150	910
341	776229.187	3916530.177	NMMK0055	Elkins	Baca/Prewitt		210	210	160	280	860
327	767340.4084	3924651.446	NMMK0057	Elkins	Baca/Prewitt		200	200	160	280	840
326	767262.6317	3924536.263	NMMK0168	Section 5	Baca/Prewitt		280	280	160	120	840
346	779591.667	3920032.303	NMMK0152	Section 1	Baca/Prewitt		290	290	160	60	800
474	776890.8018	3919899.557	NMMK0064 NMMK0259	Febco	Baca/Prewitt		260	260	160	60	740
450	777898.2697	3920913.649	NMMK0277	Unknown	Baca/Prewitt		150	150	160	200	660
475	772693.8751	3917621.584	NMMK0159	Section 2	Baca/Prewitt		160	160	160	170	650
473	774999.3586	3920324.676	NMMK0076	Haven	Baca/Prewitt		120	120	160	210	610
331	770937.8028	3924350.274	NMMK0136	Red Cap	Baca/Prewitt		110	110	160	220	600
332	770864.0322	3923592.983	NMMK0085	Hutton-James	Baca/Prewitt		100	100	160	220	580
476	772647.1783	3917398.631	NMMK0345	Yucca	Baca/Prewitt		70	70	160	270	570
333	771008.1337	3923207.286	NMMK0090	Junior	Baca/Prewitt		150	150	160	100	560
351	782121.4178	3920675.631	NMMK0258	Silver Spur	Baca/Prewitt		150	150	160	80	540
340	778435.461	3921542.028	NMMK0206	Section 22	Baca/Prewitt	Off Navajo Nation	50	50	160	280	540
356	783260.6931	3925493.727	NMMK0257	Silver Bit	Baca/Prewitt		60	60	160	220	500
325	764238.1039	3927845.251	NMMK0123	Pat	Baca/Prewitt		90	90	160	100	440
350	782188.0671	3920165.022	NMMK0255	Silver Bit	Baca/Prewitt		10	10	160	210	390
324	763676.664	3927820.467	NMMK0249	Section 34	Baca/Prewitt		0	0	160	220	380
337	773996.5843	3921849.778	NMMK0123	Pat	Baca/Prewitt		60	60	160	100	380
349	781906.115	3920364.596	NMMK0002	Alta	Baca/Prewitt		20	20	160	170	370
336	769226.3695	3929188.047	NMMK0041	Dakota	Baca/Prewitt		50	50	160	100	360
348	781949.1027	3920177.964	NMMK0164	Section 4	Baca/Prewitt		40	40	160	100	340
352	781738.1018	3920112.975	NMMK0058	Evelyn	Baca/Prewitt		0	0	160	170	330
334	771093.8765	3928279.598	NMMK0071	Frances	Baca/Prewitt		0	0	160	160	320
335	769994.7902	3928419.07	NMMK0096	Lost Mine	Baca/Prewitt		0	0	160	110	270
339	774340.6732	3921727.033	NMMK0138	Red Point	Baca/Prewitt		10	10	160	90	290
338	774607.3627	3921836.715	NMMK0096	Lost Mine	Baca/Prewitt		0	0	160	110	270
347	780925.3701	3916918.664	NMMK0077								

TABLE 5. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Chapter

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
276	676869.3608	4078265.148	NA-0420		Bedabito		2770	2770	160	210	5910
277	676991.5014	4079038.105	NA-0424		Bedabito		1945	1945	160	310	4360
46	675410.9134	4075304.09	NA-0403		Bedabito		100	100	160	110	470
443	675575.989	4075219.957	Bec060		Bedabito		100	100	160	100	460
265	675086.4628	4072721.114	NA-0413		Bedabito		30	30	160	180	400
266	675240.041	4072620.541	NA-0413		Bedabito		30	30	160	170	390
47	676616.4687	4074726.029	NA-0404		Bedabito		20	20	160	180	380
269	675269.2962	4072927.788	NA-0414		Bedabito		0	0	160	180	340
270	674443.6089	4074133.218	NA-0418		Bedabito		20	20	160	140	340
281	676830.4013	4074621.651	NA-0419		Bedabito		20	20	160	140	340
271	674864.4734	4073536.651	NA-0417		Bedabito		20	20	160	130	330
272	674554.3755	4074048.275	NA-0418		Bedabito		20	20	160	130	330
442	674826.8749	4073754.03	Bec054		Bedabito		20	20	160	130	330
279	669623.153	4078646.608	NA-0422		Bedabito		0	0	160	140	300
267	675147.6223	4073320.477	NA-0416		Bedabito		0	0	160	130	290
268	675200.6272	4073175.053	NA-0415		Bedabito		0	0	160	130	290
48	677623.0196	4074283.65	NA-0404		Bedabito		0	0	160	110	270
444	677120.6462	4074394.793	Bec064		Bedabito		0	0	160	110	270
445	677754.5144	4074438.997	Bec068		Bedabito		0	0	160	110	270
				Upper Red Canyon Mine							
29	671729.4403	4074252.039	NA-0412		Bedabito		0	0	160	100	260
49	672733.7587	4078275.177	NA-0401	Copper Mine	Bedabito		0	0	160	100	260
447	672279.3173	4078189.821	Bec070		Bedabito		0	0	160	100	260
280	670095.0962	4078924.894	NA-0421		Bedabito		0	0	160	90	250
278	668610.9648	4078369.995	NA-0423		Bedabito	Teeec Nos Pos	0	0	160	80	240
446	669029.921	4078287.563	Bec090		Bedabito		0	0	160	80	240
78	599566.5415	4011707.456	NA-0701		Black Mesa		340	340	160	80	920
79	599360.8545	4011491.272	NA-0701		Black Mesa		340	340	160	80	920
406	601916.4062	4014181.74	Bik029		Black Mesa		130	130	160	50	470
85	603427.0984	4016376.105	NA-0703		Black Mesa		60	60	160	30	310
87	604689.5467	4018612.543	NA0709A		Black Mesa		0	0	160	100	260
88	604979.7355	4018451.479	NA0709C		Black Mesa		0	0	160	100	260
86	604529.3675	4018239.225	NA0709B		Black Mesa		0	0	160	80	240
166	461561.6064	3975470.586	NA-0116		Bodaway/Gap		160	160	160	110	590
452	463560.0573	3992325.358	7	A & B No. 13	Bodaway/Gap		80	80	160	70	390
290	442824.7467	4058163.11	NA-0259		Bodaway/Gap		0	0	160	190	350
118	464177.2518	3995730.463	NA-0105a	Henry Sloan No. 1	Bodaway/Gap		75	75	160	20	330
117	464165.9126	3995442.087	NA-0105b	Henry Sloan No. 1	Bodaway/Gap		60	60	160	20	300
451	460453.8574	3989868.083	8	A & B No. 7	Bodaway/Gap		40	40	160	40	280
163	460749.9584	3975585.796	NA-0114AAB		Bodaway/Gap		0	0	160	110	270
164	460587.3076	3975569.26	NA-0114AAC		Bodaway/Gap		0	0	160	110	270
165	460860.5774	3975316.227	NA-0114AAA		Bodaway/Gap		0	0	160	110	270
162	459624.834	3975733.337	NA-0114DAA		Bodaway/Gap		0	0	160	90	250
172	461719.6782	3994422.391	NA-0113		Bodaway/Gap		25	25	160	20	230
178	461826.7995	3997666.546	NA-0103B	Earl Huskon No. 1	Bodaway/Gap		20	20	160	20	220
183	463398.767	3998127.758	NA-0102	Paul Huskie No.21	Bodaway/Gap		10	10	160	20	200
91	446398.9385	407333.514	NA-0101	Jimmie Boone B	Bodaway/Gap		0	0	160	30	190
161	459352.8332	3976090.392	NA-0114DAB		Bodaway/Gap		0	0	160	30	190

TABLE 5. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Chapter

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
171	462142.6949	3995787.164	NA-0112		Bodaway/Gap		0	0	160	20	180
177	463384.9437	3997713.999	NA-0103A	Earl Huskon No. 3	Bodaway/Gap		0	0	160	20	180
228	461705.0368	3970341.754	NA-0106	A & B No. 3	Cameron		2015	2015	160	550	4740
175	459751.4357	3966216.404	NA-0108	A & B No. 2	Cameron		905	905	160	420	2390
384	460538.2081	3963262.407	Cam051		Cameron		190	190	0	180	560
382	464743.1308	3966845.222	Cam043		Cameron		25	25	160	250	460
383	462786.9484	3961563.503	Cam052		Cameron		110	110	160	70	450
176	465755.8613	3966572.629	NA-0107	Montezuma No. 1	Cameron		10	10	160	230	410
170	465491.1967	3957766.93	NA-0164	Taylor Reid No. 2	Cameron		10	10	160	130	310
137	466901.2931	3964216.321	NA-0149d	Charles Huskon No. 3	Cameron		10	10	160	110	290
453	464521.9719	3957164.029	67a	Section 1 Lease	Cameron	Off Navajo Nation	10	10	160	110	290
140	465908.0955	3964185.697	NA-0149A	Charles Huskon No. 3	Cameron		0	0	160	110	270
138	466207.2095	3963823.969	NA-0149c	Charles Huskon No. 3	Cameron		0	0	160	90	250
167	467082.6518	3958512.704	NA-0158B	Charles Huskon No. 8	Cameron		0	0	160	90	250
169	467570.4031	3958167.69	NA-0159	Boyd Tisi No. 1	Cameron		0	0	160	90	250
139	466286.4282	3964044.714	NA-0149b	Charles Huskon No. 3	Cameron		0	0	160	80	240
232	468787.7125	3959732.47	NA-0155B	Charles Huskon No. 10	Cameron		10	10	160	60	240
142	467482.9627	3961303.457	NA-0154	Yazzie No. 102	Cameron		0	0	160	70	230
143	467525.4417	3961581.563	NA-0153	Yazzie No. 102	Cameron		0	0	160	70	230
141	468219.0491	3959655.69	NA-0155A	Charles Huskon No. 10	Cameron		0	0	160	60	220
168	466889.5414	3958912.745	NA-0158A	Charles Huskon No. 8	Cameron		0	0	160	50	210
144	470492.9854	3956954.728	NA-0166	Charles Huskon No. 11	Cameron	Off Navajo Nation	10	10	160	20	200
385	467886.9093	3959487.141	Cam056		Cameron		0	0	160	40	200
456	470449.4317	3956208.069	Cam068b		Cameron		0	0	160	20	180
302	770624.2892	3931522.852	NMMK0247	Section 32, 33	Casamero Lake	Baca/Prewitt	175	175	160	190	700
74	597746.9684	4035417.377	NA-0712		Chilchinbeto		230	230	160	270	890
75	595315.698	4035770.671	NA-0705		Chilchinbeto		155	155	160	140	610
76	595488.4853	4035840.211	NA-0710		Chilchinbeto		155	155	160	140	610
402	595165.0982	4036107.246	Bik002		Chilchinbeto		125	125	160	140	550
400	594721.1456	4035893.829	Bik001		Chilchinbeto		110	110	160	140	520
401	594843.241	4035986.184	Bik001a		Chilchinbeto		110	110	160	140	520
73	598520.5545	4036429.885	NA-0711		Chilchinbeto		90	90	160	130	470
296	640679.4097	4005195.423	Occurrence B	Occurrence B	Chinle		1910	1910	160	40	4020
300	637823.1606	4006096.134	Zhealy Tso, N. Part Parcel 1	Zhealy Tso	Chinle		80	80	160	30	350
297	637512.737	4005384.335	Zhealy Tso, S. Part Parcel 1	Zhealy Tso	Chinle		50	50	160	30	290
299	637297.2201	4005514.831	Zhealy Tso, W. Part Parcel 1	Zhealy Tso	Chinle		30	30	160	30	250
298	637307.1062	4005587.988	Zhealy Tso, W. Part Parcel 1	Zhealy Tso	Chinle		20	20	160	30	230
307	721283.829	3944667.567	NMMK0034 NMMK0318 NMMK0319	Church Rock	Church Rock		630	630	160	300	1720

TABLE 5. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Chapter

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
310	716868.3209	3939189.204	NMMK0028	CD and S	Church Rock		600	600	160	190	1550
110	720573.2493	3938633.663	NA-0551	Foutz No. 2	Church Rock		595	595	160	110	1460
313	713088.9575	3931358.685	NMMK0230	Section 28	Church Rock		345	345	160	180	1030
209	722234.375	3938446.461	NA-0550	Foutz 3	Church Rock	Iyanbito	300	300	160	90	850
308	718239.9986	3944063.166	NMMK0124	Section 13	Church Rock		270	270	160	70	770
309	717144.0997	3943193.531	NMMK0209	Section 23	Church Rock		255	255	160	60	730
312	709247.7446	3936045.163	NMMK0083	Hogback	Church Rock		120	120	160	140	540
314	713779.2141	3930137.653	NMMK0047	Diamond No. 2	Church Rock		105	105	160	130	500
124	464642.4006	3970419.982	NA-0129	Charles Huskon No. 1	Coalmine Canyon		600	600	160	320	1680
160	463797.0206	3973569.092	NA-0124a	Jack Daniels No. 1-5	Coalmine Canyon		585	585	160	300	1630
119	461989.3307	3972490.353	NA-0125	Charles Huskon No. 12	Coalmine Canyon		560	560	160	210	1490
125	464693.8829	3970700.382	NA-0127		Coalmine Canyon		440	440	160	280	1320
128	464819.668	3970159.567	NA-0130	Max Johnson No. 10	Coalmine Canyon		370	370	160	320	1220
126	464881.6981	3970683.057	NA-0128A	Lemuel Littleman No. 2	Coalmine Canyon		310	310	160	280	1060
120	464069.7649	3973915.352	NA-0123	Charles Huskon No. 19	Coalmine Canyon		265	265	160	220	910
127	465273.5706	3970853.199	NA-0128B	Lemuel Littleman No. 2	Coalmine Canyon		270	270	160	180	880
135	466680.0409	3968827.294	NA-0138	Boyd Tisi No. 2	Coalmine Canyon		130	130	160	340	760
136	466847.6431	3968694.227	NA-0139	Juan Horse No. 3	Coalmine Canyon		130	130	160	340	760
230	463550.6905	3974715.269	NA-0124B	Kachina No. 6	Coalmine Canyon		205	205	160	170	740
373	462600.1884	3975866.999	Cam018		Coalmine Canyon		215	215	160	110	700
131	465924.1017	3970197.762	NA-0134	Alice Tolino No. 1 & 3	Coalmine Canyon		120	120	160	260	660
229	464183.3964	3974232.103	NA-0124C	Jack Daniels No. 1-5	Coalmine Canyon		160	160	160	170	650
134	466413.5635	3969783.509	NA-0137	Yazzie No. 312	Coalmine Canyon		70	70	160	260	560
123	467400.934	3967869.78	NA-0141	Juan Horse No. 4	Coalmine Canyon		70	70	160	250	550
133	466256.5239	3970049.88	NA-0135	Evans Huskon No. 2	Coalmine Canyon		40	40	160	260	500
132	466457.3466	3970174.881	NA-0136	Yazzie No. 101	Coalmine Canyon		40	40	160	250	490
130	465967.3805	3970553.747	NA-0131a	Ewood Canyon No. 1	Coalmine Canyon		0	0	160	260	420
129	466302.037	3970690.061	NA-0131b	Max Johnson No. 9	Coalmine Canyon		0	0	160	210	370
236	468189.2861	3966390.892	NA-0111		Coalmine Canyon		0	0	160	210	370
121	463818.8588	3977642.398	NA-0113	Jeepster No. 1	Coalmine Canyon		60	60	160	80	360
159	472628.2836	3945454.616	NA-0194	Julius Chee No. 3	Coalmine Canyon		30	30	160	110	330
156	474301.0321	3945886.887	NA-0196B	RAMCO No. 24	Coalmine Canyon		30	30	160	100	320
233	472583.4407	3947750.712	NA-0110A	Max Johnson No. 7	Coalmine Canyon		30	30	160	100	320
374	462973.4243	3978285.946	Cam012		Coalmine Canyon		40	40	160	80	320
375	467069.57	3970972.412	Cam033		Coalmine Canyon		0	0	160	160	320
155	474845.2969	3945332.523	NA-0196A	RAMCO No. 24	Coalmine Canyon		40	40	160	70	310
157	473390.2962	3944517.865	NA-0197	Charles Huskon No. 4 & Paul Huskie No. 3	Coalmine Canyon		40	40	160	60	300
376	468978.27	3966460.51	Cam042		Coalmine Canyon		0	0	160	140	300
92	462645.491	3978831.722	NA-0104	Charles Huskon No. 6	Coalmine Canyon		45	45	160	40	290
158	472939.0906	3945041.199	NA-0195	Julius Chee No. 2	Coalmine Canyon		30	30	160	60	280
235	474000.3944	3944574.753	NA-0197B	Charles Huskon No. 18	Coalmine Canyon		30	30	160	60	280

TABLE 5. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Chapter

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
154	474887.8094	3944217.03	NA-0198	Emmet Lee No. 3	Coalmine Canyon		10	10	160	60	240
234	472286.1535	3948685.653	NA-0110B	Amos Chee No. 8	Coalmine Canyon		10	10	160	60	240
122	469922.5101	3964445.755	NA-0148	Jack Huskon No. 3	Coalmine Canyon	Cameron	0	0	160	60	220
231	469726.8822	3973788.803	NA-0121	Evans Huskon No. 34	Coalmine Canyon		0	0	160	60	220
378	471653.1189	3957818.335	Cam062		Coalmine Canyon		10	10	160	20	200
146	473372.2984	3952587.62	NA-0187	Jackpot No. 5	Coalmine Canyon		0	0	160	30	190
147	473078.081	3952699.699	NA-0186	Jackpot No. 1	Coalmine Canyon		0	0	160	30	190
148	472484.3683	3953351.234	NA-0180	Yazzie No. 2	Coalmine Canyon		0	0	160	30	190
149	472143.7397	3953395.939	NA-0179	Yazzie No. 1	Coalmine Canyon		0	0	160	30	190
153	472919.6645	3954770.864	NA-0174	RAMCO No. 20	Coalmine Canyon		0	0	160	30	190
173	472363.6568	3952955.56	NA-0184	Charles Huskon No. 17	Coalmine Canyon		0	0	160	30	190
174	472276.5032	3952587.93	NA-0109	Jackpot No. 40	Coalmine Canyon		0	0	160	30	190
90	472690.2481	3955070.607	NA-0172a	RAMCO No. 21	Coalmine Canyon		0	0	160	20	180
145	472283.0459	3957605.287	NA-0163	Ryan No. 1	Coalmine Canyon		0	0	160	20	180
150	472753.9546	3955304.063	NA-0172B	RAMCO No. 21	Coalmine Canyon		0	0	160	20	180
152	473408.5542	3954697.395	NA-0175	Ryan No. 2	Coalmine Canyon		0	0	160	20	180
151	473269.7752	3955072.615	NA-0173	RAMCO No. 22	Coalmine Canyon		0	0	160	10	170
377	472460.8206	3959601.12	Cam057		Coalmine Canyon		0	0	160	10	170
379	470131.0491	3967485.728	Cam042		Coalmine Canyon		0	0	0	60	60
380	475203.4153	3958448.149	Cam060		Coalmine Canyon		0	0	0	10	10
381	475871.3225	3958745.394	Cam061		Coalmine Canyon		0	0	0	10	10
		Cove Transfer									
472	659600.7928	4047695.472	Station	Cove Transfer Station	Cove		2020	2020	160	340	4540
426	657441.3892	4046129.812	Cov098		Cove		340	340	160	130	970
104	656784.7926	4046333.589	NA-0320		Cove		100	100	160	130	490
421	656895.6255	4045919.069	Cov099	Frank Jr. Mine	Cove		50	50	160	120	380
105	655884.7467	4045539.447	NA-0319		Cove		20	20	160	160	360
505	656149.919	4044893.352	NA-0317		Cove		20	20	160	160	360
506	656132.8528	4044993.203	Cov086		Cove		20	20	160	160	360
507	656325.4218	4045013.243	Cov087		Cove		20	20	160	160	360
508	656230.3764	4045048.336	NA-0317		Cove		20	20	160	160	360
509	656493.2842	4044508.997	NA-0317		Cove		20	20	160	160	360
510	656401.9528	4044392.613	NA-0301	Frank No. 1 Mines	Cove		20	20	160	150	350
101	656625.3875	4043653.208	NA-0314		Cove		30	30	160	120	340
106	656275.7607	4044209.152	NA-0316	Frank No. 1 Mines	Cove		20	20	160	130	330
107	656025.8516	4044076.131	NA-0316		Cove		20	20	160	130	330
415	655685.9535	4043963.235	Cov230		Cove		20	20	160	130	330
423	659916.8195	4042156.015	Cov026		Cove		30	30	160	100	320
469	656274.6249	4045727.425	NA-0319		Cove		20	20	160	120	320
94	659573.0011	4043490.417	NA-0310A		Cove		0	0	160	140	300
100	657548.9453	4044313.217	NA-0315		Cove		10	10	160	120	300
417	656635.6158	4042454.595	Cov053		Cove		25	25	160	80	290
98	657323.8352	4042708.56	NA-0313		Cove		25	25	160	70	280
99	657228.7769	4045105.699	NA-0318		Cove		0	0	160	120	280
102	656893.4238	4045388.566	NA-0318		Cove		0	0	160	120	280
103	656747.6838	4045256.698	NA-0302	Mesa V Mine	Cove		0	0	160	120	280
287	658315.9563	4044231.308	NA-0324		Cove		0	0	160	120	280

TABLE 5. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Chapter

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
420	657109.0398	4044421.774	Cov068		Cove		0	0	160	120	280
424	656886.6743	4043003.918	Cov052		Cove		25	25	160	70	280
			NA-0300 NA-0310B NA-0310C NA-0310D								
93	659194.8889	4043344.766			Cove		0	0	160	110	270
96	658103.6381	4042557.829	NA-0312		Cove		10	10	160	70	250
97	658124.0382	4042161.766	NA-0312		Cove		10	10	160	70	250
416	656473.0069	4042872.314	Cov054		Cove		10	10	160	70	250
418	658250.4359	4042130.567	Cov033		Cove		10	10	160	70	250
425	657269.5548	4043077.717	Cov000		Cove		10	10	160	70	250
285	658543.2536	4042710.075	NA-0323		Cove		0	0	160	70	230
286	658839.6746	4042556.878	NA-0321		Cove		0	0	160	70	230
95	658223.2241	4041549.936	NA-0311		Cove		0	0	160	60	220
288	658934.9785	4042159.292	NA-0322		Cove		0	0	160	60	220
419	659403.6561	4042638.13	Cov027		Cove		0	0	160	60	220
422	658939.5601	4040931.275	Cov030		Cove		0	0	160	50	210
305	726199.6288	3949719.848	NMMK0112	Church Rock No. 1	Coyote Canyon		775	775	160	140	1850
306	723880.9995	3951004.653	NMMK0114	Church Rock No. 2	Coyote Canyon		140	140	160	470	910
316	751887.8934	3954316.678	NMMK0040	Crownpoint	Crownpoint		240	240	160	570	1210
237	607616.5889	4087761.794	NA-0213		Dennehotso		60	60	160	120	400
291	586689.4184	3925872.94	NA-0751		Indian Wells		50	50	160	180	440
311	726723.6729	3937368.298	NMMK0341	Westwater	Iyanbito		0	0	160	130	290
111	723860.233	3937632.795	NA-0552	Section 3	Iyanbito		0	0	160	100	260
521	599410.9516	4087654.835	NA-0204	Willie Water Claim	Kayenta		100	100	160	510	870
				Harvey Blackwater							
239	603266.9314	4095460.437	NA-0226	Claim (North)	Kayenta		305	305	160	40	810
			Harvey Blackwater								
238	602058.5286	4093881.434	NA-0226	Claim (South)	Kayenta		80	80	160	160	480
240	602052.7298	4093649.566	NA-0226		Kayenta		70	70	160	170	470
242	599099.2505	4088647.312	NA-0225	John Yazzie #1 Mine	Kayenta		0	0	160	260	420
399	567653.352	4081215.797	Mon019	Salty Mine	Kayenta		100	100	160	30	390
241	599124.7915	4089127.132	NA-0224		Kayenta		0	0	160	140	300
243	583219.684	4083894.037	NA-0235		Kayenta		0	0	160	20	180
244	583663.6496	4083987.856	NA-0235		Kayenta		0	0	160	20	180
398	577628.1254	4086361.034	Mon0076c		Kayenta		0	0	160	0	160
317	746672.0385	3937211.988	NMMK0102	Mariano Lake	Mariano Lake		720	720	160	140	1740
301	745811.3925	3937270.281	NMMK0102	Mariano Lake	Mariano Lake		455	455	160	130	1200
318	747884.4911	3936725.269	NMMK0097	Mac No. 1	Mariano Lake		435	435	160	160	1190
315	750541.5846	3956065.934	NMMK0038	Crownpoint	Nahodishgish		350	350	160	380	1240
			NMMK0113								
303	727324.7017	3949791.594	NMMK0116	Church Rock No. 1-East	Nahodishgish		380	380	160	120	1040
353	786015.9141	3923498.979	NMMK0220	Section 25	Off Navajo Nation		300	300	160	290	1050
354	785427.1533	3924926.478	NMMK0214	Section 24	Off Navajo Nation		180	180	160	280	800
365	786464.69	3913840.445	NMMK0218	Section 25 SEQ	Off Navajo Nation		90	90	160	280	620
464	471302.7485	3951250.962			Off Navajo Nation		210	210	160	40	620
359	783441.9436	3928105.177	NMMK0175	Section 10	Off Navajo Nation		130	130	160	170	590

TABLE 5. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Chapter

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score	
363	786238.4292	3914499.481	NMMK0219	NMMK0215	Section 25 Open Pit	Off Navajo Nation		130	130	160	170	590
358	783940.5864	3928016.808	NMMK0051	Dysart No. 1	Off Navajo Nation		85	85	160	230	560	
355	783986.2122	3925285.004	NMMK0208	Section 23	Off Navajo Nation		50	50	160	290	550	
368	786745.502	3913623.861	NMMK0218	Section 25 SEQ	Off Navajo Nation		10	10	160	280	460	
370	787693.8767	3913452.753	NMMK0235	Section 30	Off Navajo Nation		25	25	160	230	440	
357	783493.0733	3925959.336	NMMK0183	Section 15	Off Navajo Nation		40	40	160	190	430	
371	787417.5418	3913244.011	NMMK0235	Section 30	Off Navajo Nation		10	10	160	230	410	
372	787752.0668	3913096.866	NMMK0235	Section 30	Off Navajo Nation		10	10	160	230	410	
367	786991.7009	3913675.124	NMMK0218	Section 25 SEQ	Off Navajo Nation		10	10	160	220	400	
369	787013.1713	3913314.176	NMMK0218	Section 25 SEQ	Off Navajo Nation		10	10	160	220	400	
360	786341.5936	3915567.371	NMMK0019	Bobcat	Off Navajo Nation		40	40	160	120	360	
366	786785.2809	3913831.476	NMMK0218	Section 25 SEQ	Off Navajo Nation		10	10	160	180	360	
362	786805.8549	3914549.2	NMMK0216	Section 25	Off Navajo Nation		10	10	160	170	350	
454	465099.2736	3956058.264	67b	Section 1 Lease	Off Navajo Nation		10	10	160	110	290	
				Black Point-Murphy Group	Off Navajo Nation							
463	471524.6631	3951793.161	88				50	50	160	30	290	
361	786877.25	3915446.294	NMMK0018	Blue Peak	Off Navajo Nation		10	10	160	90	270	
458	470121.6234	3954099.618	71b	Section 9 Lease	Off Navajo Nation		0	0	160	30	190	
459	470391.8115	3953629.864	71c	Section 9 Lease	Off Navajo Nation		0	0	160	30	190	
457	470689.6917	3955130.448	71a	Section 9 Lease	Off Navajo Nation		0	0	160	20	180	
223	569836.2211	4096789.794	NA-0237	Rock Door Mine	Ojato		1095	1095	160	370	2720	
225	561505.8835	4099729.66	NA-0214	Keith Mine - A	Ojato		980	980	160	500	2620	
224	564006.7351	4097094.92	NA-0215	Norcross Mine - A	Ojato		420	420	160	360	1360	
				Monument #1 Annex Mine	Ojato							
245	568823.6818	4089607.414	NA-0210				320	320	160	440	1240	
181	567535.1659	4093815.787	NA-0217	Harvey Black Mine	Ojato		180	180	160	650	1170	
389	560251.9107	4097329.411	Mon069		Ojato		250	250	160	450	1110	
253	563426.7712	4090947.511	NA-0200	Moonlight Mine	Ojato		185	185	160	480	1010	
247	568306.296	4089716.647	NA-0210	Mitten #2 - A	Ojato		230	230	160	380	1000	
246	568453.5378	4089359.488	NA-0210	Monument #1 - A	Ojato		200	200	160	350	910	
254	568264.8558	4097457.39	NA-0212	Skyline Mine - East	Ojato		215	215	160	290	880	
519	562857.8252	4088016.9	NA-0219	Big Four Mine	Ojato		30	30	160	470	690	
179	563337.2473	4089099.863	NA-0220	Sunlight Mine	Ojato		10	10	160	490	670	
520	562791.8159	4088112.957	Mon007	Big Four Mine	Ojato		20	20	160	470	670	
248	566068.5476	4083311.172	NA-0233	Alma-Seggin Mine	Ojato		200	200	160	80	640	
258	561139.3988	4095100.628	NA-0208		Ojato		20	20	160	440	640	
392	558236.802	4092396.983	Mon030	Tract 24 Mine - B	Ojato		100	100	160	280	640	
260	558896.2776	4099760.648	NA-0211	Mitten 31 Mine	Ojato		60	60	160	350	630	
391	558379.3976	4091960.404	Mon029	Tract 24 Mine - A	Ojato		80	80	160	290	610	
393	562731.2537	4090027.67	Mon013	Daylight Mine	Ojato		40	40	160	370	610	
				NA-0221								
180	561204.9616	4090183.814	NA-0207	Starlight Mine	Ojato		10	10	160	410	590	
182	565784.6216	4097153.856	NA-0216	Tom Holiday Mine	Ojato		30	30	160	360	580	
255	567345.6134	4097291.437	NA-0212	Mitten #1 'A'	Ojato		60	60	160	300	580	
259	560919.0129	4095243.574	NA-0208		Ojato		20	20	160	380	580	
517	566389.4477	4097242.836	NA-0234		Ojato		30	30	160	340	560	

TABLE 5. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Chapter

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
518	566373.437	4097189.932	Mon077		Ojato		30	30	160	340	560
257	561387.0629	4094741.836	NA-0202		Ojato		0	0	160	380	540
250	567041.8302	4082472.926	NA-0209	Black Rock Mine	Ojato		165	165	160	40	530
226	557495.8253	4095752.276	NA-0218	Monument #3 Mine	Ojato		70	70	160	220	520
256	567236.5698	4097271.019	NA-0212	Mitten #1 'B'	Ojato		20	20	160	310	510
513	565948.6862	4085527.311	NA-0222		Ojato		115	115	160	120	510
514	565886.8037	4085623.096	Mon011	Naschoy Mine	Ojato		115	115	160	110	500
261	557923.0262	4100236.512	NA-0211	Taylor Reid Mine - B	Ojato		0	0	160	330	490
516	558227.301	4100053.696	NA-0211	C-3 Mine	Ojato		20	20	160	290	490
249	567208.8139	4082356.892	NA-0209	Black Rock Mine	Ojato		140	140	160	40	480
515	558085.7775	4100122.195	NA-0211	Taylor Reid Mine - A	Ojato		10	10	160	290	470
251	564564.4125	4088187.865	NA-0206	Big Chief Mine	Ojato		0	0	160	290	450
394	560939.1846	4084660.428	Mon006	Joe Rock Mine	Ojato		50	50	160	110	370
252	562187.4364	4084802.223	NA-0201	Boot Jack Mine	Ojato		20	20	160	90	290
262	554920.0974	4090997.763	NA-0205	Tract 11E	Ojato		0	0	160	70	230
395	576750.0448	4088103.134	Mon0076a		Ojato		0	0	160	60	220
227	554047.6725	4100617.152	NA-0236	Tract 7	Ojato		0	0	160	50	210
263	554166.727	4091532.854	NA-0203	Tract 11	Ojato		0	0	160	40	200
222	578103.6473	4091205.565	NA-0223		Ojato		0	0	160	30	190
221	579315.6355	4091064.568	NA-0223		Ojato		0	0	160	10	170
386	547558.997	4096844.967	Mon061	Alfred Mills	Ojato		0	0	160	10	170
387	547828.677	4095845.768	Mon062	Tract 12	Ojato		0	0	160	10	170
388	545529.482	4102570.481	Mon064	Horsetrail	Ojato		0	0	160	10	170
390	550207.8347	4093114.129	Mon060		Ojato		0	0	160	10	170
397	546359.2666	4097297.891	Mon063	Tract 15	Ojato	Shonto	0	0	160	10	170
196	549168.8558	4122560.157	UTAML	Whirlwind Mine	Ojato		0	0	160	0	160
264	547250.9498	4094662.483	NA-0228	Tract 14	Ojato		0	0	160	0	160
396	551777.4219	4082997.151	Mon065		Ojato		20	20	0	40	80
		NMMK0117									
304	724990.2083	3948613.167	NMMK0315	NE Church Rock	Pinedale		1705	1705	160	210	3780
189	638077.8641	4080316.964	NA-0509A		Red Mesa		230	230	160	230	850
191	646817.7473	4085692.884	NA-0507	Toh Atin Mesa Mine	Red Mesa		260	260	160	150	830
449	637307.012	4080781.187	Swt047		Red Mesa		140	140	160	180	620
293	626929.3256	4122940.261	NA-0238		Red Mesa		0	0	160	360	520
220	638312.6167	4089250.339	NA-0508B		Red Mesa		130	130	160	50	470
448	636621.2696	4084010.859	Swt048		Red Mesa		70	70	160	120	420
190	637966.2229	4089079.969	NA-0508A		Red Mesa		70	70	160	40	340
19	673994.8837	4068594.665	NA-0808		Red Valley		550	550	160	410	1670
479	675278.4065	4065140.506	NA-0822		Red Valley		460	460	160	410	1490
478	675146.4742	4064898.133	Oak156		Red Valley		460	460	160	400	1480
480	675339.4538	4064919.219	NA-0821	Stripped Area 3 of VCA Plot 3	Red Valley		460	460	160	400	1480
481	675305.8744	4064995.497	NA-0806		Red Valley		450	450	160	400	1460
20	674127.7291	4068561.433	NA-0800	Oak Springs Mine (Gravel Cap)	Red Valley		390	390	160	410	1350
42	675129.1157	4063374.979	NA-0828	Red Rock Mine	Red Valley		395	395	160	300	1250
483	675587.8217	4065190.885	NA-0815		Red Valley		360	360	160	370	1250
482	675599.025	4065010.793	Oak143		Red Valley		350	350	160	320	1180

TABLE 5. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Chapter

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
43	675625.0988	4063364.064	NA-0828		Red Valley		305	305	160	260	1030
1	675186.7323	4062979.701	NA-0828	Red Wash Mine (Leroy Pettigrew)	Red Valley		290	290	160	260	1000
441	675539.3008	4063154.459	Oak230		Red Valley		290	290	160	260	1000
432	674222.2696	4044178.728	Oak221	Rocky Spring Mine	Red Valley		330	330	160	150	970
484	675478.8317	4065254.228	NA-0809		Red Valley		210	210	160	360	940
440	674714.7259	4067910.042	Oak238		Red Valley		235	235	160	270	900
6	675280.1669	4065443.211	NA-0804	Lookout Point Incline Mine	Red Valley		190	190	160	320	860
487	676209.1785	4064426.233	NA-0811	King Tutt Point Mines	Red Valley		210	210	160	260	840
18	674867.1696	4067877.435	NA-0801		Red Valley		195	195	160	270	820
21	673897.4229	4069409.616	NA-0405		Red Valley		200	200	160	250	810
8	675230.7736	4065679.475	NA-0814		Red Valley		150	150	160	320	780
7	675373.4834	4065438.986	NA-0820	Stripped Area 1 of VCA Plot 3	Red Valley		130	130	160	320	740
22	674137.1298	4069918.771	NA-0406	Leroy Mine	Red Valley		160	160	160	260	740
41	675032.8553	4067706.504	NA-0818		Red Valley		135	135	160	270	700
2	677767.5234	4064255.389	NA-0817		Red Valley		145	145	160	230	680
23	674810.1002	4069681.159	NA-0407	Lower Canyon Mine	Red Valley		130	130	160	250	670
3	676948.3571	4064532.564	NA-0816		Red Valley		135	135	160	220	650
9	675410.14	4065555.894	NA-0803	Lookout Point Mines	Red Valley		90	90	160	280	620
485	676520.0182	4064394.452	NA-0812	Begay No. 1 and Carrizo No. 1 Mines	Red Valley		120	120	160	220	620
16	675079.5153	4067151.504	NA-0823	Upper Salt Rock Canyon Mine	Red Valley		90	90	160	240	580
486	676403.978	4064428.546	Oak125		Red Valley		120	120	160	180	580
488	676400.5222	4064528.668	NA-0807	Begay No. 1 and Carrizo No. 1 Mines	Red Valley		120	120	160	180	580
5	677921.8217	4065216.527	NA-0824		Red Valley		60	60	160	280	560
4	677272.6583	4064984.116	NA-0826		Red Valley		80	80	160	230	550
31	674347.8351	4058162.629	NA-0825	Upper Red Wash Mine	Red Valley		120	120	160	140	540
10	676269.3984	4065400.996	NA-0810	Begay No. 2 Mine	Red Valley		90	90	160	190	530
12	675207.1043	4066282.075	NA-0827	Williams Point Mine	Red Valley		40	40	160	280	520
477	675698.1324	4065308.662	NA-0805	Shadyside Incline	Red Valley		60	60	160	230	510
15	675061.9926	4067204.75	NA-0802	Franks Point Mine	Red Valley		70	70	160	200	500
30	677509.9124	4063491.002	NA-0817	Red Wash Mine (Hosteen S. Begay)	Red Valley		80	80	160	170	490
11	675996.6045	4065610.429	NA-0813		Red Valley		50	50	160	190	450
27	674370.1891	4070911.109	NA-0410	Lone Star Mine	Red Valley		30	30	160	220	440
24	673557.5466	4070513.055	NA-0408		Red Valley		50	50	160	160	420
14	677026.2043	4066110.726	NA-0819b	Salt Canyon Mines	Red Valley		10	10	160	230	410
17	675634.608	4067193.06	NA-0818		Red Valley		30	30	160	190	410
26	673909.2667	4070727.296	NA-0409	Hazel Mine	Red Valley		30	30	160	190	410
28	674902.7746	4071377.357	NA-0411	Cottonwood Butte Mine	Red Valley		30	30	160	190	410

TABLE 5. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Chapter

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
289	675527.6451	4066868.6	NA-0823	Lower Salt Rock Canyon Mine	Red Valley		30	30	160	190	410
13	676633.0239	4066117.87	NA-0819a	Salt Canyon Mines	Red Valley		0	0	160	230	390
32	674714.0514	4057875.959	NA-0825	Upper Red Wash Mine	Red Valley		35	35	160	140	370
25	673620.2997	4070761.263	NA-0400	Syracuse Mine	Red Valley		0	0	160	170	330
493	655275.4196	4052572.782	NA-0339	East Mesa Mines	Red Valley		0	0	160	120	280
494	655302.931	4052787.463	Cov110	East Mesa Mines	Red Valley		0	0	160	120	280
489	671182.4011	4074426.729	NA-0425	Toni Tuc No. 1 Mine	Red Valley	Beclabito	0	0	160	100	260
490	671293.9623	4074466.372	Bec002	Toni Tuc No. 1 Mine	Red Valley	Beclabito	0	0	160	100	260
34	654576.3359	4057405.222	NA-0308	Cove Mesa Mines (Cato Sells)	Red Valley		10	10	160	10	190
35	654723.7075	4057632.023	NA-0341	Cove Mesa Mines (Cato Sells)	Red Valley		10	10	160	10	190
433	675134.1186	4037437.917	San018		Red Valley		0	0	160	30	190
430	654616.0674	4056255.061	Cov177	Cove Mesa Mines (AEC Lease Plot 7)	Red Valley		0	0	160	10	170
431	654662.3785	4056695.845	Cov175	Cove Mesa Mines (AEC Lease Plot 7)	Red Valley		0	0	160	10	170
501	654593.3923	4056385.985	Cov176	Cove Mesa Mines (AEC Lease Plot 7)	Red Valley		0	0	160	10	170
33	659898.9691	4066432.122	NA-0342	Tohe Thlany Begay Mine	Red Valley		0	0	160	0	160
439	659790.5427	4066323.002	Cov192		Red Valley		0	0	160	0	160
77	602866.0918	4026847.846	NA-0700		Rough Rock		30	30	160	180	400
40	654497.611	4051663.346	NA-0338	West Mesa Mine	Round Rock	Red Valley	0	0	160	90	250
511	656276.9622	4040807.137	NA-0329		Round Rock		0	0	160	70	230
203	655016.8821	4041834.858	NA-0331		Round Rock		0	0	160	60	220
204	655111.6311	4041409.648	NA-0330		Round Rock		0	0	160	60	220
207	657214.2319	4039031.759	NA-0343		Round Rock		0	0	160	60	220
428	657057.1031	4039187.56	Cov216	Knife Edge Mesa Mine	Round Rock		0	0	160	60	220
512	656489.4687	4040827.175	NA-0329		Round Rock		0	0	160	60	220
205	656836.4725	4040738.48	NA-0327		Round Rock		0	0	160	50	210
206	656634.3771	4040665.664	NA-0328		Round Rock		0	0	160	50	210
429	658465.1018	4039797.674	Cov226	Cisco Mine	Round Rock		0	0	160	50	210
467	658038.268	4039551.928	NA-0326	Joleo Mine	Round Rock		0	0	160	50	210
201	654371.8668	4042086.998	NA-0333		Round Rock		0	0	160	40	200
202	654384.017	4041853.516	NA-0332		Round Rock		0	0	160	40	200
208	659207.0071	4039702.283	NA-0325	Camp Mine	Round Rock		0	0	160	40	200
197	651277.1462	4046559.208	NA-0337	Mexican Cry Mine	Round Rock		0	0	160	30	190
198	651259.0464	4046345	NA-0337	Mexican Cry Mine	Round Rock		0	0	160	30	190
199	652572.976	4045323.189	NA-0335		Round Rock		0	0	160	30	190
200	654214.0626	4042651.127	NA-0334	Jimmie King No. 9 Mine	Round Rock		0	0	160	30	190
427	652371.079	4045295.878	Cov198		Round Rock		0	0	160	30	190
468	652167.9776	4046047.142	NA-0336	Hall Mine	Round Rock		0	0	160	30	190
44	677192.0142	4034691.713	NA-0610		Sanostee		20	20	160	20	220

TABLE 5. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Chapter

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
407	678655.6266	4029300.23	San001		Sanostee		10	10	160	10	190
45	680194.2202	4031361.651	NA-0601		Sanostee		0	0	160	10	170
192	678669.0002	4031981.215	NA-0603		Sanostee		0	0	160	10	170
193	679149.7235	4032557.901	NA-0612		Sanostee		0	0	160	10	170
194	679944.0641	4033863.392	NA-0613		Sanostee		0	0	160	10	170
195	680413.5119	4033097.882	NA-0608		Sanostee		0	0	160	10	170
408	678606.5789	4033379.62	San017		Sanostee		0	0	160	10	170
409	678773.1348	4032135.95	San010		Sanostee		0	0	160	10	170
410	678588.575	4031302.753	San008		Sanostee		0	0	160	10	170
411	679215.1498	4030859.417	San002		Sanostee		0	0	160	10	170
412	678987.3627	4031723.997	San007	Enos Johnson Mine	Sanostee		0	0	160	10	170
413	679931.4709	4031765.399	San006		Sanostee		0	0	160	10	170
414	679369.747	4031004.19	San003		Sanostee		0	0	160	10	170
465	679214.5731	4032180.665	NA-0611		Sanostee		0	0	160	10	170
466	679420.8216	4032235.423	NA-0604		Sanostee		0	0	160	10	170
		NMMK0147									
323	757544.3801	3932903.287	NMMK0260	Ruby No. 3	Smith Lake		465	465	160	400	1490
322	756706.7427	3937172.781	NMMK0015	Black Jack No. 1	Smith Lake		315	315	160	490	1280
		NMMK0145 NMMK0146									
321	751828.2705	3934200.194	NMMK0148	Ruby No. 1	Smith Lake		300	300	160	370	1130
319	748911.8247	3935551.021	NMMK0016	Black Jack No. 2	Smith Lake		320	320	160	190	990
320	749612.5514	3935047.98	NMMK0098	Mac No. 2	Smith Lake		70	70	160	140	440
114	652036.9826	4082181.552	NA-0922B		Sweetwater		330	330	160	710	1530
52	651957.625	4082230.944	NA-0910		Sweetwater		300	300	160	710	1470
50	652559.2127	4082162.877	NA-0914	Sah Tah Mine	Sweetwater	Teeec Nos Pos	180	180	160	910	1430
188	639455.6744	4080271.743	NA-0509B		Sweetwater		380	380	160	470	1390
51	652140.5679	4082648.961	NA-0909		Sweetwater	Teeec Nos Pos	250	250	160	660	1320
108	652303.4711	4081848.392	NA-0922C		Sweetwater		220	220	160	720	1320
57	652072.7921	4083431.44	NA-0915		Sweetwater	Teeec Nos Pos	255	255	160	520	1190
53	652666.6617	4082458.962	NA-0921A		Sweetwater	Teeec Nos Pos	150	150	160	720	1180
109	652288.3898	4082075.714	NA-0922C		Sweetwater		170	170	160	670	1170
54	652755.3276	4082730.256	NA-0908		Sweetwater	Teeec Nos Pos	90	90	160	760	1100
55	653148.8821	4082703.684	NA-0912		Sweetwater	Teeec Nos Pos	110	110	160	600	980
56	652913.2301	4083029.472	NA-0920		Sweetwater		110	110	160	560	940
67	652171.368	4084629.914	NA-0924		Sweetwater	Teeec Nos Pos	160	160	160	290	770
58	650983.3091	4084601.872	NA-0926		Sweetwater	Teeec Nos Pos	130	130	160	310	730
435	654650.7829	4076856.314	Swt036		Sweetwater		185	185	160	120	650
219	654921.0374	4077167.28	NA-0518		Sweetwater		140	140	160	160	600
217	654591.9504	4077229.666	NA-0506		Sweetwater		130	130	160	140	560
218	655100.8349	4077273.265	NA-0506		Sweetwater		120	120	160	160	560
436	651791.8692	4066796.027	Swt018		Sweetwater		120	120	160	0	400
187	642669.3214	4063917.85	NA-0500		Sweetwater		90	90	160	10	350
216	650565.6716	4071550.28	NA-0504		Sweetwater		80	80	160	20	340
184	653025.2184	4073744.78	NA-0505A		Sweetwater		50	50	160	20	280
185	653402.5858	4073568.298	NA-0505B		Sweetwater		50	50	160	10	270
186	653261.0992	4073327.452	NA-0505C		Sweetwater		50	50	160	10	270
212	651591.5636	4065355.625	NA-0515		Sweetwater		40	40	160	0	240

TABLE 5. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Chapter

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
211	652153.8509	4062497.854	NA-0513		Sweetwater		20	20	160	0	200
274	652011.1486	4059005.796	NA-0511		Sweetwater		20	20	160	0	200
275	651665.9561	4058822.603	NA-0511		Sweetwater		20	20	160	0	200
39	653993.2279	4056047.842	NA-0306	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		0	0	160	20	180
210	650038.7368	4062519.182	NA-0512		Sweetwater		10	10	160	0	180
214	653843.0961	4067669.901	NA-0516		Sweetwater		10	10	160	0	180
215	653900.5133	4067850.214	NA-0516		Sweetwater		10	10	160	0	180
434	654581.0547	4056009.223	Cov178	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater	Red Valley	0	0	160	20	180
437	649238.3635	4059315.129	Sw002		Sweetwater		10	10	160	0	180
438	649584.4204	4059130.176	Sw003		Sweetwater		10	10	160	0	180
497	654708.76	4055542.866	NA-0304	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		0	0	160	20	180
498	654379.8856	4055487.79	NA-0305	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		0	0	160	20	180
499	654612.5719	4055177.034	NA-0340	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		0	0	160	20	180
500	654756.2938	4055288.177	Cov122	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		0	0	160	20	180
502	654867.8475	4055394.978	Cov121	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		0	0	160	20	180
503	654505.0162	4055117.902	Cov125	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		0	0	160	20	180
36	653896.6336	4057674.522	NA-0308	Cove Mesa Mines (Cato Sells)	Sweetwater		0	0	160	10	170
37	653644.1173	4057273.626	NA-0308	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		0	0	160	10	170
38	654071.6347	4057186.655	NA-0308	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		0	0	160	10	170
495	654263.555	4056108.253	NA-0309	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		0	0	160	10	170
496	654154.3383	4056826.398	NA-0307	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater		0	0	160	10	170
504	654319.9145	4056362.696	NA-0303	Cove Mesa Mines (AEC Lease Plot 7)	Sweetwater	Red Valley	0	0	160	10	170
213	653091.8291	4063502.303	NA-0514	Mildred Mine	Sweetwater		0	0	160	0	160
273	650112.7248	4059243.632	NA-0510		Sweetwater		0	0	160	0	160
80	598259.9603	4011536.501	NA-0706		Tachee/Blue Gap		480	480	160	40	1160
72	654134.8089	4085123.106	NA-0918		Teeec Nos Pos		615	615	160	240	1630
292	653892.3854	4085334.23	NA-0900		Teeec Nos Pos		510	510	160	190	1370
			NA-0902 NA-0917A NA-0917B		Teeec Nos Pos						
71	654681.8533	4084638.448	NA-0917B		Teeec Nos Pos		475	475	160	240	1350
492	654168.6186	4084656.471	Tse079		Teeec Nos Pos		410	410	160	240	1220
70	654405.8658	4084646.71	NA-0918		Teeec Nos Pos		400	400	160	240	1200

TABLE 5. Combined Pathways Score Table for AUMs on and Within One Mile of the Navajo Nation - By Chapter

Mine ID	UTM Easting, Zone 12, NAD83	UTM Northing, Zone 12, NAD83	Source_ID	Mine_Name	Chapter1	Chapter2	Total Air Score	Total Soil Score	Total Surface Water Score	Total Ground Water Score	Combined Score
113	652348.9077	4082862.815	NA-0922A		Teeec Nos Pos	Sweetwater	240	240	160	560	1200
491	654150.481	4084517.257	NA-0907		Teeec Nos Pos		390	390	160	240	1180
115	652681.6732	4082721.132	NA-0921B		Teeec Nos Pos	Sweetwater	100	100	160	720	1080
65	652772.6789	4085408.211	NA-0923		Teeec Nos Pos		295	295	160	300	1050
68	654980.4724	4083721.454	NA-0911		Teeec Nos Pos		270	270	160	330	1030
284	649691.2697	4092105.341	NA-0931		Teeec Nos Pos		305	305	160	240	1010
116	654020.9735	4084376.704	NA-0919A		Teeec Nos Pos		300	300	160	230	990
69	653869.5846	4084074.69	NA-0919B		Teeec Nos Pos		270	270	160	230	930
			NA-0925								
61	652061.603	4085737.181	NA-0903		Teeec Nos Pos		195	195	160	350	900
59	651458.1361	4085337.542	NA-0904		Teeec Nos Pos	Sweetwater	160	160	160	370	850
60	651864.0043	4085124.856	NA-0916		Teeec Nos Pos	Sweetwater	150	150	160	390	850
64	652865.7351	4086750.839	NA-0929		Teeec Nos Pos		215	215	160	240	830
66	652481.1336	4085201.767	NA-0905		Teeec Nos Pos	Sweetwater	170	170	160	290	790
62	651265.6725	4086030.183	NA-0927		Teeec Nos Pos		125	125	160	230	640
63	650629.6521	4086059.69	NA-0928		Teeec Nos Pos	Sweetwater	100	100	160	270	630
295	660625.7348	4116632.967	MP206	MP206	Teeec Nos Pos		70	70	160	320	620
283	654722.8086	4089392.228	NA-0930		Teeec Nos Pos		80	80	160	110	430
282	666857.8326	4082514.284	NA-0402		Teeec Nos Pos		10	10	160	180	360
89	556576.9135	3923611.488	NA-0750		Teesto		150	150	160	310	770
			Tselani/ Cottonwood								
81	601572.8452	4007799.181	NA-0702				10	10	160	80	260
84	604425.3765	4009623.666	NA-0708		Tselani/ Cottonwood		40	40	160	20	260
404	604351.9893	4009154.835	Blk022		Tselani/ Cottonwood		40	40	160	20	260
82	602743.3201	4008158.383	NA-0704		Tselani/ Cottonwood	Tachee/ Blue Gap	0	0	160	40	200
83	603889.3724	4008310.071	NA-0707		Tselani/ Cottonwood		0	0	160	40	200
403	603838.1842	4008103.927	Blk020		Tselani/ Cottonwood		0	0	160	40	200
405	602773.338	4006455.4	Blk019b		Tselani/ Cottonwood		0	0	160	40	200

DISCLAIMER: The method used to prioritize the AUM sites is based on a limited subset of the locational-distance criteria in the HRS. It does not include many of the other criteria and factors built into the HRS model. Therefore, the scores derived under this model cannot be considered to be reflective of an HRS score, but are meant only to begin the process of prioritization based on distance from the AUM source.

UNSCANNABLE MEDIA

To use the unscannable media document(s),
contact the Superfund Records Center.

(Document #2079916)